



**NEMO|etc.**

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ENGINEER

TEST

CONSULT

**P.E. EVALUATION REPORT (PEER)**

**GAF**

1 Campus Drive  
Parsippany, NJ 07054  
**(800) 766-3411**

**PEER-GAF-007.A.R45**

**FL5680-R45 (NON-HVHZ)**

Date of Issuance: 11/07/2005

**Revision 45: 01/31/2025**

**SCOPE:**

This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida, and the [Third-Party Evaluation Report](#) acceptance by the Texas Department of Insurance. The documentation submitted has been reviewed by Robert Nieminen, P.E. for compliance with the **8<sup>th</sup> Edition (2023) Florida Building Code and 2018 International Building Code** [sections noted herein](#).

**DESCRIPTION: Ruberoid® Modified Bitumen Roof Systems (NON-HVHZ)**

**LABELING:** Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

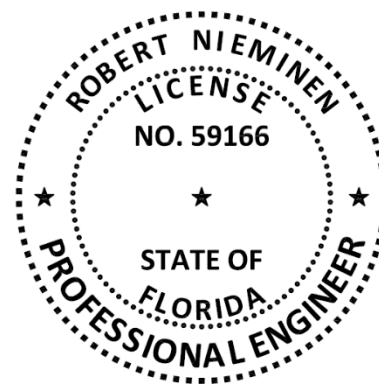
**CONTINUED COMPLIANCE:** This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle.

**ADVERTISEMENT:** "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be in its entirety.

**INSPECTION:** Upon request, a copy of this entire PEER shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This PEER consists of pages 1 through 6, plus 97-pages of Appendix.

**Prepared by:**



**CERTIFICATION OF INDEPENDENCE:**

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
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3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the PEERs are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. Robert Nieminen, P.E. is also Registered in the State of Texas; PE-96420.
6. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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## ROOFING SYSTEMS EVALUATION:

### 1. SCOPE:

**Product Category:** Roofing  
**Sub-Category:** Modified Bitumen Roof Systems  
**Product Approval Method:** Method 1, Option D – Codified Material, Evaluation by Engineer  
**Compliance Statement:** Ruberoid® Modified Bitumen Roof Systems, as produced by GAF, have demonstrated compliance with the following sections of the **Codes listed below** through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

### 2. STANDARDS:

| CODE                             | SECTION                | PROPERTY           | STANDARD                        |
|----------------------------------|------------------------|--------------------|---------------------------------|
| 2023 Florida Building Code       | 1504.3.1               | Wind resistance    | FM 4474                         |
|                                  | 1515.1.1               | Wind resistance    | TAS 114, Appendix C, D or J     |
|                                  | 1504.7                 | Impact resistance  | FM 4470, Section 4.6            |
|                                  | 1507.10.2              | Material standards | ASTM D2178, D4601, D4897        |
|                                  | 1507.11.2              | Material standards | ASTM D6163, D6164, D6222, D6298 |
| 2018 International Building Code | 1504.3.1               | Wind resistance    | FM 4474                         |
|                                  | 1504.7                 | Impact resistance  | FM 4470, Section 4.6            |
|                                  | 1507.10.2              | Material standards | ASTM D2178, D4897               |
|                                  | 1507.10.2, 1507.11.2.1 | Material standard  | ASTM D4601                      |
|                                  | 1507.11.2              | Material standards | ASTM D6163, D6164, D6222, D6298 |

### 3. REFERENCES:

| ENTITY         | EXAMINATION         | REFERENCE             | DATE     | ENTITY       | EXAMINATION    | REFERENCE          | DATE     |
|----------------|---------------------|-----------------------|----------|--------------|----------------|--------------------|----------|
| ERD (TST6049)  | ASTM D6163 (CA-S)   | G46160.09.14-2A       | 09/09/14 | FM (TST1867) | FM 4470/4474   | 3044688            | 03/01/12 |
| ERD (TST6049)  | ASTM D6164 (GA)     | G46160.09.14-3B       | 09/09/14 | FM (TST1867) | FM 4470/4474   | 797-07198-267      | 03/01/12 |
| ERD (TST6049)  | ASTM D6164 (GA)     | G46160.12.14-3E       | 12/29/14 | FM (TST1867) | FM 4470/4474   | 3044688 (Re-Issue) | 03/16/12 |
| ERD (TST6049)  | ASTM D6163 (GA)     | G46160.03.15          | 03/11/15 | FM (TST1867) | FM 4470/4474   | 3044541            | 04/04/12 |
| ERD (TST6049)  | ASTM D6163 (GA)     | G46160.02.15-2D-1     | 02/09/16 | FM (TST1867) | FM 4470/4474   | 3044862            | 05/11/12 |
| ERD (TST6049)  | ASTM D4601 (GA)     | GAF-SC13285.02.17-2   | 02/08/17 | FM (TST1867) | FM 4470/4474   | 3043900            | 08/16/12 |
| ERD (TST6049)  | ASTM D6164 (GA)     | GAF-SC13285.03.17-5   | 03/23/17 | FM (TST1867) | FM 4470/4474   | 3046280            | 08/22/12 |
| ERD (TST6049)  | ASTM D6164 (GA)     | GAF-SC13105.03.17-R1  | 03/23/17 | FM (TST1867) | FM 4470/4474   | 3046388            | 09/24/12 |
| ERD (TST6049)  | ASTM D4601 (IN)     | GAF-SC16440.12.17     | 12/31/17 | FM (TST1867) | FM 4470/4474   | 3041769            | 09/27/12 |
| NEMO (TST6049) | ASTM D6163 (GA)     | 4S-GAF-18-001.11.18   | 11/06/18 | FM (TST1867) | FM 4470/4474   | 3046403            | 09/28/12 |
| NEMO (TST6049) | ASTM D2178 (GA)     | 4S-GAF-18-001.01.19-1 | 01/02/19 | FM (TST1867) | FM 4470/4474   | 3046054            | 12/21/12 |
| NEMO (TST6049) | ASTM D6222 (IN)     | 4S-GAF-18-001.03.19-A | 03/13/19 | FM (TST1867) | FM 4470/4474   | 3046081            | 02/13/13 |
| NEMO (TST6049) | ASTM D6163 (AR)     | 4q-GAF-19-SSMBB-02A   | 04/08/19 | FM (TST1867) | FM 4470/4474   | 797-08150-267      | 03/07/13 |
| NEMO (TST6049) | ASTM D6164 (AR)     | 4q-GAF-19-SSMBB-01A   | 04/08/19 | FM (TST1867) | FM 4470/4474   | 797-08216-267      | 04/11/13 |
| NEMO (TST6049) | ASTM D4897 (AL)     | 4q-GAF-21-SSMBB-01.B  | 09/07/21 | FM (TST1867) | FM 4470/4474   | 3048122            | 04/29/13 |
| NEMO (TST6049) | ASTM D4601 (AL)     | 4q-GAF-22-SSMBB-03.A  | 04/18/23 | FM (TST1867) | FM 4470/4474   | 3047104            | 05/10/13 |
| NEMO (TST6049) | ASTM D2178 (AL)     | 4q-GAF-22-SSMBB-03.B  | 04/18/23 | FM (TST1867) | FM 4470/4474   | 797-08263-267      | 05/23/13 |
| NEMO (TST6049) | ASTM D6164 (GA)     | 4q-GAF-22-SSMBB-01.A  | 04/22/23 | FM (TST1867) | FM 4470/4474   | 797-08264-267      | 05/23/13 |
| NEMO (TST6049) | ASTM D4897 (CA-F)   | 4q-GAF-23-SSMBB-01.A  | 12/04/23 | FM (TST1867) | FM 4470/4474   | 3047237            | 07/15/13 |
| NEMO (TST6049) | Physical Properties | 4j-GAF-SSUDL-004.A    | 11/19/24 | FM (TST1867) | FM 4470/4474   | 797-08670-267      | 09/16/13 |
| NEMO (TST6049) | ASTM D6164 (GA)     | 4q-GAF-SSMBB-001.A    | 12/05/24 | FM (TST1867) | FM 4470/4474   | 797-08873-267      | 11/26/13 |
| NEMO (TST6049) | ASTM D6164 (GA)     | 4q-GAF-SSMBB-002.A    | 12/05/24 | FM (TST1867) | FM 4470/4474   | 3048871            | 12/11/13 |
| NEMO (TST6049) | ASTM D6164 (GA)     | 4q-GAF-SSMBB-004.A    | 01/29/25 | FM (TST1867) | FM 4470/4474   | 3048066            | 12/13/13 |
| PRI (TST5878)  | ASTM D2178 (AL)     | MSA-039-02-02         | 09/27/17 | FM (TST1867) | FM 4470/4474   | 797-09016-267      | 12/17/13 |
| PRI (TST5878)  | ASTM D2178 (AL)     | MSA-039-02-01         | 09/27/17 | FM (TST1867) | FM 4470/4474   | 3048496            | 12/19/13 |
| PRI (TST5878)  | ASTM D6164 (CA-S)   | 376T0140              | 08/18/21 | FM (TST1867) | FM 4470/4474   | 3049601            | 01/29/14 |
| PRI (TST5878)  | ASTM D6222 (CA-S)   | 376T0143              | 08/23/21 | FM (TST1867) | FM 4470/4474   | 797-09984-267      | 10/28/14 |
| PRI (TST5878)  | ASTM D6222 (CA-S)   | 376T0144              | 08/26/21 | FM (TST1867) | FM 4470/4474   | 797-09987-267      | 10/28/14 |
| PRI (TST5878)  | ASTM D4897 (GA)     | 376T0227              | 12/20/21 | FM (TST1867) | FM 4470/4474   | 797-10017-267      | 11/06/14 |
| PRI (TST5878)  | ASTM D4897 (GA)     | 376T0228              | 12/20/21 | FM (TST1867) | FM 4470/4474   | RR202724           | 10/02/15 |
| PRI (TST5878)  | ASTM D4601 (GA)     | 376T0229              | 12/20/21 | FM (TST1867) | FM 4470/4474   | RR205568           | 06/15/16 |
| PRI (TST5878)  | ASTM D4601 (GA)     | 376T0240              | 12/21/21 | FM (TST1867) | FM 4470/4474   | RR205474           | 08/31/16 |
| PRI (TST5878)  | ASTM D6164 (CA-S)   | 376T0221              | 01/17/22 | FM (TST1867) | FM 4470 / 4474 | 3058483            | 12/09/16 |
| PRI (TST5878)  | ASTM D6222 (CA-S)   | 376T0222              | 01/26/22 | FM (TST1867) | FM 4470 / 4474 | RR208244           | 02/02/17 |
| PRI (TST5878)  | ASTM D6163 (CA-S)   | 376T0141              | 01/31/22 | FM (TST1867) | FM 4470 / 4474 | RR208306           | 02/02/17 |
| PRI (TST5878)  | ASTM D2178 (CA-F)   | 376T0275              | 02/03/22 | FM (TST1867) | FM 4470 / 4474 | RR208456           | 02/13/17 |
| PRI (TST5878)  | ASTM D4601 (CA-F)   | 376T0276              | 03/08/22 | FM (TST1867) | FM 4470 / 4474 | 3062588 (PLA)      | 08/01/17 |
| PRI (TST5878)  | ASTM D6164 (CA-S)   | 376T0220              | 05/04/22 | FM (TST1867) | FM 4470 / 4474 | Letter             | 02/13/18 |



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| ENTITY            | EXAMINATION     | REFERENCE            | DATE     | ENTITY          | EXAMINATION    | REFERENCE             | DATE     |
|-------------------|-----------------|----------------------|----------|-----------------|----------------|-----------------------|----------|
| PRI (TST5878)     | ASTM D6222 (GA) | 376T0274             | 06/01/22 | FM (TST1867)    | FM 4470 / 4474 | 3061784               | 07/25/18 |
| PRI (TST5878)     | ASTM D6163 (AR) | 824T0047             | 06/09/22 | FM (TST1867)    | FM 4470 / 4474 | 3055904               | 10/25/18 |
| PRI (TST5878)     | ASTM D6163 (AR) | 824T0047             | 06/09/22 | FM (TST1867)    | FM 4470 / 4474 | RR215191-267          | 11/07/18 |
| PRI (TST5878)     | ASTM D6163 (AR) | 824T0046             | 06/30/22 | FM (TST1867)    | FM 4470 / 4474 | PR450261              | 10/22/19 |
| PRI (TST5878)     | ASTM D6163 (AR) | 824T0047             | 06/30/22 | FM (TST1867)    | FM 4470 / 4474 | PR453353              | 01/31/20 |
| PRI (TST5878)     | ASTM D6222 (GA) | 376T0241             | 07/14/22 | FM (TST1867)    | FM 4470        | PR452971              | 02/19/20 |
| PRI (TST5878)     | ASTM D6222 (GA) | 376T0273             | 08/29/22 | FM (TST1867)    | FM 4474        | PR455417              | 12/23/20 |
| PRI (TST5878)     | ASTM D6222 (GA) | 376T0230             | 08/29/22 | FM (TST1867)    | FM 4474        | PR458073              | 04/08/21 |
| PRI (TST5878)     | ASTM D6298 (AR) | 824T0098             | 03/21/23 | FM (TST1867)    | FM 4474        | PR457312              | 04/20/21 |
| PRI (TST5878)     | ASTM D6164 (GA) | 376T0482             | 02/26/24 | FM (TST1867)    | FM 4470        | RR227768              | 04/09/21 |
| PRI (TST5878)     | ASTM D6164 (GA) | 376T0483             | 02/26/24 | FM (TST1867)    | FM 4470        | PR459831              | 04/21/21 |
| PRI (TST5878)     | ASTM D6164 (GA) | 376T0484             | 02/26/24 | FM (TST1867)    | FM 4474        | PR456101              | 06/24/21 |
| PRI (TST5878)     | ASTM D6164 (GA) | 376T0486             | 02/26/24 | FM (TST1867)    | FM 4474        | PR460889              | 08/01/22 |
| PRI (TST5878)     | ASTM D6163 (GA) | 376T0480             | 02/29/24 | FM (TST1867)    | FM 4474        | PR460126              | 09/20/22 |
| PRI (TST5878)     | ASTM D6163 (GA) | 376T0481             | 02/29/24 | FM (TST1867)    | FM 4474        | PR464081              | 02/20/23 |
| PRI (TST5878)     | ASTM D6163 (AR) | 824T0155             | 04/18/24 | FM (TST1867)    | FM 4474        | RR237726              | 08/23/23 |
| ACRC (TST4671)    | TAS 114         | ACRC 06-041          | 11/10/06 | FM (TST1867)    | FM 4474        | RR237973              | 09/13/23 |
| ACRC (TST4671)    | TAS 114         | ACRC 06-042          | 11/14/06 | FM (TST1867)    | FM 4474        | RR240599              | 03/15/24 |
| ACRC (TST4671)    | TAS 114         | ACRC 06-043          | 11/16/06 | FM (TST1867)    | FM 4474        | RR240748              | 05/02/24 |
| ACRC (TST4671)    | TAS 114         | ACRC 006-044         | 11/16/06 | FM (TST1867)    | FM 4474        | RR241361              | 05/07/24 |
| ACRC (TST4671)    | TAS 114         | ACRC 06-048          | 12/21/06 | FM (TST1867)    | FM 4474        | RR241387              | 05/10/24 |
| ACRC (TST4671)    | TAS 114         | ACRC 06-049          | 12/22/06 | FM (TST1867)    | FM 4474        | RR241014              | 05/13/24 |
| ACRC (TST4671)    | TAS 114         | ACRC 06-050          | 12/28/06 | FM (TST1867)    | FM 4474        | RR242812              | 09/06/24 |
| ACRC (TST4671)    | TAS 114         | ACRC 07-006          | 01/17/07 | FM (TST1867)    | FM 4474        | PR468153              | 11/04/24 |
| ACRC (TST4671)    | TAS 114         | ACRC 07-018          | 04/20/07 | F-TEC (TST7393) | TAS 114        | 08-050187             | 04/28/08 |
| ACRC (TST4671)    | TAS 114         | ACRC 07-028          | 05/08/07 | F-TEC (TST7393) | TAS 114        | 08-050188             | 04/28/08 |
| ACRC (TST4671)    | TAS 114         | ACRC 07-030          | 05/09/07 | F-TEC (TST7393) | TAS 114        | 08-070077             | 07/25/08 |
| ACRC (TST4671)    | TAS 114         | ACRC 07-032          | 05/10/07 | F-TEC (TST7393) | TAS 114        | 08-070084             | 07/25/08 |
| ACRC (TST4671)    | TAS 114         | ACRC 07-033          | 05/10/07 | F-TEC (TST7393) | TAS 114        | 08-050186             | 10/14/08 |
| ACRC (TST4671)    | TAS 114         | ACRC 07-041          | 08/31/07 | F-TEC (TST7393) | TAS 114        | 08-070126             | 10/14/08 |
| ACRC (TST4671)    | TAS 114         | ACRC 07-044          | 09/05/07 | F-TEC (TST7393) | TAS 114        | 08-070122             | 10/14/08 |
| ACRC (TST4671)    | TAS 114         | ACRC 07-047          | 09/07/07 | F-TEC (TST7393) | TAS 114        | 08-070127             | 10/14/08 |
| ACRC (TST4671)    | TAS 114         | ACRC 07-081          | 01/10/08 | F-TEC (TST7393) | TAS 114        | 08-080077             | 11/17/08 |
| ACRC (TST4671)    | TAS 114         | ACRC 07-082          | 01/11/08 | F-TEC (TST7393) | TAS 114        | 08-050181R            | 04/01/09 |
| ACRC (TST4671)    | TAS 114         | ACRC 08-024          | 04/18/08 | GAF             | Traceability   | Declaration           | 09/12/22 |
| ACRC (TST4671)    | TAS 114         | ACRC 08-034          | 05/19/08 | IRT (TST7408)   | TAS 114        | 00001                 | 03/30/00 |
| ACRC (TST4671)    | TAS 114         | ACRC 08-044          | 07/01/08 | IRT (TST7408)   | TAS 114        | 00002                 | 03/30/00 |
| ACRC (TST4671)    | TAS 114         | ACRC 11-043          | 08/08/11 | IRT (TST7408)   | TAS 114        | 01-039                | 01/24/02 |
| ACRC (TST4671)    | TAS 114         | ACRC 11-046          | 08/09/11 | IRT (TST7408)   | TAS 114        | 02-005                | 01/24/02 |
| ACRC (TST4671)    | TAS 114         | ACRC 11-048          | 08/10/11 | IRT (TST7408)   | TAS 114        | 02-014                | 03/26/02 |
| ACRC (TST4671)    | TAS 114         | ACRC 11-049          | 08/10/11 | IRT (TST7408)   | TAS 114        | 03-003                | 04/21/03 |
| ACRC (TST4671)    | TAS 114         | ACRC 11-050          | 08/11/11 | IRT (TST7408)   | TAS 114        | 03-004                | 04/21/03 |
| ACRC (TST4671)    | TAS 114         | ACRC 11-051          | 08/11/11 | IRT (TST7408)   | TAS 114        | 04-008                | 01/26/04 |
| ACRC (TST4671)    | TAS 114         | ACRC 11-052          | 08/12/11 | ITS (TST1558)   | TAS 114        | H9486.03-109-18       | 09/17/18 |
| ACRC (TST4671)    | TAS 114         | ACRC 11-053          | 08/17/11 | ITS (TST1558)   | TAS 114        | H9486.04-109-18       | 09/17/18 |
| ACRC (TST4671)    | TAS 114         | ACRC 11-054          | 08/17/11 | M-D (CER1592)   | TAS 114        | 23-0817.05            | 09/14/23 |
| ACRC (TST4671)    | TAS 114         | ACRC 12-015          | 04/24/12 | M-D (CER1592)   | TAS 114        | 23-0718.06            | 10/12/23 |
| ACRC (TST4671)    | TAS 114         | ACRC 12-026          | 05/10/12 | M-D (CER1592)   | TAS 114        | 19-0729.03            | 10/24/19 |
| ACRC (TST4671)    | TAS 114         | ACRC 12-034          | 08/10/12 | NEMO (TST6049)  | FM 4474        | 4L-GAF-18-002.05.19.A | 05/29/19 |
| ACRC (TST4671)    | TAS 114         | ACRC 12-035          | 08/13/12 | PRI (TST5878)   | TAS 114/FM4474 | GAF-434-02-01         | 09/16/13 |
| ACRC (TST4671)    | TAS 114         | ACRC 16-002          | 03/04/16 | PRI (TST5878)   | TAS 114/FM4474 | GAF-434-02-03         | 09/16/13 |
| ACRC (TST4671)    | TAS 114         | ACRC 23-016          | 06/16/23 | PRI (TST5878)   | TAS 114/FM4474 | GAF-434-02-04         | 09/16/13 |
| ATI/ITS (TST1558) | TAS 114         | H0730.01-109-44      | 08/16/17 | PRI (TST5878)   | TAS 114/FM4474 | GAF-436-02-02         | 03/06/14 |
| ERD (TST6049)     | TAS 114/FM4474  | 01880.09.03          | 09/10/03 | PRI (TST5878)   | TAS 114/FM4474 | GAF-436-02-03         | 03/06/14 |
| ERD (TST6049)     | TAS 114/FM4474  | 01516.04.06          | 04/20/06 | PRI (TST5878)   | TAS 114/FM4474 | GAF-436-02-04         | 03/06/14 |
| ERD (TST6049)     | TAS 114/FM4474  | 4482.10.97-1         | 12/02/06 | PRI (TST5878)   | TAS 114/FM4474 | GAF-436-02-05         | 03/06/14 |
| ERD (TST6049)     | TAS 114/FM4474  | G4280LAB.10.06-R1    | 12/06/07 | PRI (TST5878)   | TAS 114/FM4474 | GAF-436-02-08         | 03/06/14 |
| ERD (TST6049)     | TAS 114/FM4474  | G36780.07.11-R1      | 07/18/11 | PRI (TST5878)   | TAS 114/FM4474 | GAF-436-02-09         | 03/06/14 |
| ERD (TST6049)     | TAS 114/FM4474  | SC8580.11.15-3       | 11/09/15 | PRI (TST5878)   | TAS 114/FM4474 | GAF-549-02-01         | 08/08/14 |
| ERD (TST6049)     | TAS 114/FM4474  | SC8580.01.16-1       | 01/20/16 | PRI (TST5878)   | TAS 114/FM4474 | GAF-549-02-02         | 08/08/14 |
| ERD (TST6049)     | TAS 114/FM4474  | GAF-SC16825.12.17-1  | 12/31/17 | PRI (TST5878)   | Criticality    | GAF-559-02-08         | 10/16/14 |
| ERD (TST6049)     | TAS 114/FM4474  | GAF-SC16825.12.17-3B | 12/31/17 | PRI (TST5878)   | TAS 114/FM4474 | GAF-559-02-01         | 10/16/14 |
| FM (TST1867)      | FM 4470         | 2B8A4.AM             | 07/02/97 | PRI (TST5878)   | TAS 114/FM4474 | GAF-559-02-05         | 10/16/14 |
| FM (TST1867)      | FM 4470         | 0DOA8.AM             | 07/09/97 | PRI (TST5878)   | TAS 114/FM4474 | GAF-559-02-06         | 10/16/14 |
| FM (TST1867)      | FM 4470         | 1B9A8.AM             | 09/04/97 | PRI (TST5878)   | TAS 114/FM4474 | GAF-559-02-07         | 10/16/14 |
| FM (TST1867)      | FM 4470         | 3007500              | 06/15/00 | PRI (TST5878)   | TAS 114/FM4474 | GAF-559-02-09         | 10/16/14 |
| FM (TST1867)      | FM 4470         | 3005640              | 11/09/00 | PRI (TST5878)   | TAS 114/FM4474 | GAF-559-02-11         | 10/16/14 |
| FM (TST1867)      | FM 4470         | 3008178              | 12/27/00 | PRI (TST5878)   | TAS 114/FM4474 | GAF-559-02-12         | 10/16/14 |
| FM (TST1867)      | FM 4470         | 3010215              | 03/01/01 | PRI (TST5878)   | TAS 114/FM4474 | GAF-559-02-13         | 10/16/14 |
| FM (TST1867)      | FM 4470         | 3009788              | 03/28/01 | PRI (TST5878)   | TAS 114/FM4474 | GAF-559-02-14         | 10/16/14 |
| FM (TST1867)      | FM 4470         | 3011140              | 08/14/01 | PRI (TST5878)   | TAS 114/FM4474 | GAF-559-02-15         | 10/16/14 |

| ENTITY       | EXAMINATION   | REFERENCE     | DATE     | ENTITY        | EXAMINATION     | REFERENCE            | DATE     |
|--------------|---------------|---------------|----------|---------------|-----------------|----------------------|----------|
| FM (TST1867) | FM 4470       | 3013614       | 05/06/02 | PRI (TST5878) | TAS 114/FM4474  | GAF-559-02-16        | 10/16/14 |
| FM (TST1867) | FM 4470       | 3013788       | 01/10/03 | PRI (TST5878) | TAS 114/FM4474  | GAF-559-02-17        | 10/16/14 |
| FM (TST1867) | FM 4470       | 3014547       | 05/22/03 | PRI (TST5878) | TAS 114/FM4474  | GAF-559-02-18        | 10/16/14 |
| FM (TST1867) | FM 4470       | 3014692       | 08/05/03 | PRI (TST5878) | TAS 114/FM4474  | GAF-559-02-04-R1     | 03/04/15 |
| FM (TST1867) | FM 4470       | 3014960       | 03/05/04 | PRI (TST5878) | TAS 114/FM4474  | GAF-559-02-19        | 04/17/15 |
| FM (TST1867) | FM 4470/4474  | 3017250       | 04/05/04 | PRI (TST5878) | TAS 114/FM4474  | GAF-746-02-05        | 12/15/16 |
| FM (TST1867) | FM 4470/4474  | 3022139       | 05/26/05 | PRI (TST5878) | TAS 114/FM4474  | GAF-746-02-06        | 12/15/16 |
| FM (TST1867) | FM 4470/4474  | 3022508       | 07/20/05 | PRI (TST5878) | TAS 114/FM4474  | GAF-755-02-01        | 02/02/17 |
| FM (TST1867) | FM 4470/4474  | 3025023       | 12/14/05 | PRI (TST5878) | TAS 114/FM4474  | GAF-755-02-02        | 02/02/17 |
| FM (TST1867) | FM 4470/4474  | 797-02095-267 | 04/26/06 | PRI (TST5878) | TAS 114/FM4474  | GAF-755-02-03        | 02/02/17 |
| FM (TST1867) | FM 4470/4474  | 3023458       | 07/18/06 | PRI (TST5878) | TAS 114/FM4474  | GAF-755-02-04        | 02/02/17 |
| FM (TST1867) | FM 4470/4474  | 3028039       | 09/11/06 | PRI (TST5878) | TAS 114/FM4474  | GAF-747-02-04        | 09/13/18 |
| FM (TST1867) | FM 4470/4474  | 3024805       | 11/20/06 | PRI (TST5878) | TAS 114/FM4474  | GAF-747-02-05        | 09/13/18 |
| FM (TST1867) | FM 4470/4474  | 3032388       | 10/30/08 | PRI (TST5878) | Criticality     | GAF-743-02-01        | 09/14/18 |
| FM (TST1867) | FM 4470/4474  | 3032695       | 10/30/08 | PRI (TST5878) | Criticality     | GAF-743-02-02        | 09/14/18 |
| FM (TST1867) | FM 4470/4474  | 3032943       | 11/06/08 | PRI (TST5878) | TAS 114/FM4474  | GAF-743-02-03        | 09/21/18 |
| FM (TST1867) | FM 4470/4474  | 3032811       | 12/11/08 | PRI (TST5878) | TAS 114/FM4474  | GAF-743-02-04        | 09/21/18 |
| FM (TST1867) | FM 4470/4474  | 3033719       | 01/16/09 | PRI (TST5878) | TAS 114/FM4474  | GAF-743-02-05        | 09/21/18 |
| FM (TST1867) | FM 4470/4474  | 3035864       | 06/03/09 | PRI (TST5878) | TAS 114/FM4474  | GAF-743-02-06        | 09/21/18 |
| FM (TST1867) | FM 4470/4474  | 3032172       | 06/12/09 | PRI (TST5878) | TAS 114/FM4474  | GAF-743-02-08        | 09/21/18 |
| FM (TST1867) | FM 4470/4474  | 3035140       | 08/10/09 | PRI (TST5878) | TAS 114/FM4474  | GAF-765-02-02        | 09/21/18 |
| FM (TST1867) | FM 4470/4474  | 3036225       | 08/10/09 | PRI (TST5878) | TAS 114/FM4474  | GAF-901-02-01        | 02/27/19 |
| FM (TST1867) | FM 4470 (s/s) | 3036980       | 08/14/09 | PRI (TST5878) | TAS 114/FM4474  | GAF-901-02-02        | 02/27/19 |
| FM (TST1867) | FM 4470/4474  | 3034978       | 09/17/09 | PRI (TST5878) | TAS 114/FM4474  | GAF-903-02-01        | 08/15/19 |
| FM (TST1867) | FM 4470/4474  | 797-05447-267 | 04/13/10 | PRI (TST5878) | Criticality     | 376T0006-1           | 09/06/19 |
| FM (TST1867) | FM 4470/4474  | 797-05487-267 | 05/12/10 | PRI (TST5878) | Criticality     | 376T0006-3           | 09/06/19 |
| FM (TST1867) | FM 4470/4474  | 797-05550-267 | 05/25/10 | PRI (TST5878) | TAS 114/FM4474  | 376T0042             | 12/20/19 |
| FM (TST1867) | FM 4470/4474  | 797-05538-267 | 05/25/10 | PRI (TST5878) | FM 4470, impact | 376T0064             | 04/02/20 |
| FM (TST1867) | FM 4470/4474  | 797-05594-267 | 06/01/10 | PRI (TST5878) | TAS 114/FM4474  | 376T0063             | 04/02/20 |
| FM (TST1867) | FM 4470/4474  | 797-05695-267 | 07/15/10 | PRI (TST5878) | Criticality     | 376T0148             | 05/19/21 |
| FM (TST1867) | FM 4470/4474  | 797-05683-267 | 07/21/10 | PRI (TST5878) | TAS 114/FM4474  | 376T0151             | 05/26/21 |
| FM (TST1867) | FM 4470/4474  | 797-05687-267 | 07/21/10 | PRI (TST5878) | TAS 114/FM4474  | 376T0179             | 10/13/21 |
| FM (TST1867) | FM 4470/4474  | 3038128       | 07/26/10 | PRI (TST5878) | TAS 114/FM4474  | 376T0219             | 11/02/21 |
| FM (TST1867) | FM 4470/4474  | 797-05748-267 | 08/10/10 | PRI (TST5878) | FM 4474         | 376T0469             | 02/13/24 |
| FM (TST1867) | FM 4470/4474  | 3040738       | 11/16/10 | PRI (TST5878) | Criticality     | 376T0497.3-1         | 06/26/24 |
| FM (TST1867) | FM 4470/4474  | 3040738       | 11/16/10 | PRI (TST5878) | Criticality     | 376T0559             | 09/12/24 |
| FM (TST1867) | FM 4470/4474  | 3036960       | 11/30/10 | PRI (TST5878) | Criticality     | 376T0561             | 09/12/24 |
| FM (TST1867) | FM 4470/4474  | 797-06129-267 | 01/13/11 | PRI (TST5878) | Criticality     | 376T0562             | 10/14/24 |
| FM (TST1867) | FM 4470/4474  | 797-06177-267 | 03/16/11 | PRI (TST5878) | FM 4474         | 376T0488.1           | 02/13/24 |
| FM (TST1867) | FM 4470/4474  | 3041535       | 06/08/11 | PRI (TST5878) | Criticality     | 376T0497.1           | 10/28/24 |
| FM (TST1867) | FM 4470/4474  | 797-06540-267 | 06/21/11 | PRI (TST5878) | Criticality     | 376T0497.2           | 10/28/24 |
| FM (TST1867) | FM 4470/4474  | 797-06800-267 | 09/29/11 | PRI (TST5878) | FM 4474         | 376T0559             | 01/14/25 |
| FM (TST1867) | FM 4470/4474  | 797-07038-267 | 01/10/12 | UL (QUA9625)  | QA              | Service confirmation | 07/12/22 |
| FM (TST1867) | FM 4470/4474  | 797-07073-267 | 01/19/12 | UL (QUA9625)  | QA              | Florida BCIS         | Current  |

#### 4. PRODUCT DESCRIPTION:

This PEER covers **Ruberoid® Modified Bitumen Roof Systems** installed in accordance with **GAF** published installation instructions and the [Limitations of Use herein](#).

| TABLE 1: EVALUATED MEMBRANES   |                                                    |                   |      |       |                |
|--------------------------------|----------------------------------------------------|-------------------|------|-------|----------------|
| TYPE                           | PRODUCT                                            | MATERIAL STANDARD |      |       | PLANT(S)       |
|                                |                                                    | REFERENCE         | TYPE | GRADE |                |
| BASE SHEETS AND BASE PLYS:     | GAFGLAS® #75 Base Sheet                            | ASTM D4601        | II   | N/A   | AL, CA-F, GA-S |
|                                | Tri-Ply® #75 Base Sheet                            | ASTM D4601        | II   | N/A   | AL, CA-F, GA-S |
|                                | GAFGLAS® #80 Ultima™ Base Sheet                    | ASTM D4601        | II   | N/A   | AL, GA-S       |
|                                | GAFGLAS® Stratavent® Nailable Venting Base Sheet   | ASTM D4897        | II   | N/A   | AL, GA-S       |
|                                | StormSafe™ Anchor Sheet                            | not codified      |      |       | QC             |
| VENTING BASE PLYS:             | GAFGLAS® Stratavent® Perforated Venting Base Sheet | ASTM D4897        | II   | N/A   | AL, CA-F, GA-S |
| PLYs:                          | GAFGLAS® Ply 4                                     | ASTM D2178        | IV   | N/A   | AL, CA-F, GA-S |
|                                | Tri-Ply® Ply 4 Ply Sheet                           | ASTM D2178        | IV   | N/A   | AL, CA-F, GA-S |
|                                | GAFGLAS® Ply 4 M                                   | ASTM D2178        | IV   | N/A   | AL             |
|                                | GAFGLAS® FlexPly™ 6                                | ASTM D2178        | VI   | N/A   | AL, GA-S       |
|                                | GAFGLAS® FlexPly™ 6 M                              | ASTM D2178        | VI   | N/A   | AL             |
| APP, SMOOTH-SURFACE MEMBRANES: | Liberty™ SBS Self-Adhering Base/Ply Sheet          | ASTM D4601        | II   | N/A   | GA-S, IN       |
|                                | Ruberoid® Torch Smooth                             | ASTM D6222        | I    | S     | CA-S, GA-S, IN |
|                                | Tri-Ply® APP Smooth Membrane                       | ASTM D6222        | I    | S     | CA-S, GA-S, IN |

**TABLE 1: EVALUATED MEMBRANES**

| TYPE                             | PRODUCT                                    | MATERIAL STANDARD |      |       | PLANT(S)       |
|----------------------------------|--------------------------------------------|-------------------|------|-------|----------------|
|                                  |                                            | REFERENCE         | TYPE | GRADE |                |
| APP, GRANULE SURFACED MEMBRANES: | Ruberoid® Torch Granule                    | ASTM D6222        | I    | G     | CA-S, GA-S, IN |
|                                  | Tri-Ply® APP Granule Membrane              | ASTM D6222        | I    | G     | CA-S, GA-S, IN |
|                                  | Ruberoid® Torch Plus Granule FR            | ASTM D6222        | I    | G     | GA-S           |
|                                  | Ruberoid® EnergyCap™ Torch Granule FR      | ASTM D6222        | I    | G     | CA-S           |
|                                  | Ruberoid® EnergyCap™ Torch Plus Granule FR | ASTM D6222        | II   | G     | CA-S           |
| SBS, SMOOTH-SURFACE MEMBRANES:   | Ruberoid® 20 Smooth                        | ASTM D6163        | I    | S     | AR             |
|                                  | Ruberoid® HW 20 Smooth                     | ASTM D6163        | I    | S     | AR             |
|                                  | Ruberoid® HW 25 Smooth                     | ASTM D6163        | I    | S     | GA-S           |
|                                  | Ruberoid® HW 30 Smooth                     | ASTM D6163        | I    | S     | AR             |
|                                  | Ruberoid® HW Smooth                        | ASTM D6164        | I    | S     | GA-S           |
|                                  | Ruberoid® Mop Smooth                       | ASTM D6164        | I    | S     | GA-S           |
|                                  | Ruberoid® Mop Smooth 1.5                   | ASTM D6164        | I    | S     | GA-S           |
|                                  | Ruberoid® Mop Plus Smooth                  | ASTM D6164        | I    | S     | GA-S           |
| SBS, GRANULE-SURFACE MEMBRANES:  | Ruberoid® 30 Granule                       | ASTM D6163        | I    | G     | GA-S           |
|                                  | Ruberoid® 30 Granule FR                    | ASTM D6163        | I    | G     | AR, CA-S, GA-S |
|                                  | Ruberoid® EnergyCap™ 30 Granule FR         | ASTM D6163        | I    | G     | AR, CA-S, GA-S |
|                                  | Ruberoid® HW 30 Granule FR                 | ASTM D6163        | I    | G     | AR             |
|                                  | Ruberoid® EnergyCap HW 30 Granule FR       | ASTM D6163        | I    | G     | AR             |
|                                  | Liberty™ SBS Self-Adhering Cap Sheet       | ASTM D6164        | I    | G     | AR, GA-S       |
|                                  | Ruberoid® Mop Granule                      | ASTM D6164        | I    | G     | CA-S, GA-S     |
|                                  | Ruberoid® Mop Granule FR                   | ASTM D6164        | I    | G     | GA-S           |
|                                  | Intec Flex PRF                             | ASTM D6164        | I    | G     | GA-S           |
|                                  | Tri-Ply® SBS Granule Cap Sheet             | ASTM D6164        | I    | G     | GA-S           |
|                                  | Ruberoid® HW Granule                       | ASTM D6164        | I    | G     | GA-S           |
|                                  | Ruberoid® HW Granule FR                    | ASTM D6164        | I    | G     | GA-S           |
|                                  | Ruberoid® Mop Plus Granule                 | ASTM D6164        | II   | G     | GA-S           |
|                                  | Ruberoid® Mop Plus Granule FR              | ASTM D6164        | II   | G     | AR, GA-S       |
|                                  | Ruberoid® EnergyCap™ Mop Plus Granule FR   | ASTM D6164        | II   | G     | AR, CA-S       |
|                                  | Ruberoid® HW Plus Granule                  | ASTM D6164        | II   | G     | GA-S           |
|                                  | Ruberoid® HW Plus Granule FR               | ASTM D6164        | II   | G     | AR, GA-S       |
|                                  | Ruberoid® EnergyCap™ HW Plus Granule FR    | ASTM D6164        | II   | G     | AR, CA-S       |
| SBS, FOIL-SURFACE MEMBRANES:     | Ruberoid® UltraClad SBS Membrane           | ASTM D6298        | N/A  | N/A   | AR             |
| VAPOR BARRIER MEMBRANES:         | GAF SA Vapor Retader XL and XL40           | N/A               |      |       | IN             |

## 5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.
- 5.2 This PEER is not for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).
- 5.3 This PEER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with requirements of the applicable Code to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This PEER does not include evaluation of fire classification. Refer to **FBC or IBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC or IBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 This PEER does not include evaluation of roof edge termination. Refer to **FBC or IBC 1504.5** for requirements and limitations regarding edge securement for low-slope roofs.

- 5.6 Refer to **FBC or IBC 1511** for requirements and limitations regarding recover installations.
- 5.6.1 For mechanically attached components over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with [ANSI/SPRI FX-1](#) or [Testing Application Standard TAS 105](#).
- 5.6.2 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with [ANSI/SPRI IA-1](#), [ASTM E907](#), [FM Loss Prevention Data Sheet 1-52](#) or [Testing Application Standard TAS 124](#) shall be conducted on mock-ups of the proposed new roof assembly.
- 5.6.3 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with [ASTM E907](#), [FM Loss Prevention Data Sheet 1-52](#) or [Testing Application Standard TAS 124](#).
- 5.7 Refer to Appendix 1 for system attachment requirements for wind load resistance.
- 5.7.1 “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied). Refer to **FBC or IBC 1609** for determination of design wind loads.
- 5.7.2 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **FBC or IBC Chapter 16**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are [ANSI/SPRI WD1](#), [FM Loss Prevention Data Sheet 1-29](#), [Roofing Application Standard RAS 117](#) or [RAS 137](#). Assemblies marked with an asterisk\* carry the limitations set forth in **Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29** for Zone 2/3 enhancements.
- 5.7.3 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with **FBC or IBC Chapter 16**. No rational analysis is permitted for these systems.
- 5.8 All components in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**. Refer to the Product Approval of the component manufacturer for components listed in Appendix 1 that are produced by a Product Manufacturer other than the report holder on [Page 1](#) of this PEER.

## 6. INSTALLATION:

**Ruberoid® Modified Bitumen Roof Systems** shall be installed in accordance with **GAF** published installation instructions, subject to the [Limitations of Use](#) noted herein.

## 7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction to properly evaluate the installation of this product.

## 8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to [Section 4](#) herein for products and production locations having met codified material standards.

## 9. QUALITY ASSURANCE ENTITY:

[UL, LLC – QUA9625](#): (360) 817-5512; [bsai.inspections@ul.com](mailto:bsai.inspections@ul.com)

**- THE 97-PAGES THAT FOLLOW FORM PART OF THIS PEER -**

**APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE**

| TABLE              | DECK                           | APPLICATION                     | TYPE | DESCRIPTION                                                                                                       | PAGE |
|--------------------|--------------------------------|---------------------------------|------|-------------------------------------------------------------------------------------------------------------------|------|
| <a href="#">1A</a> | Wood                           | New, Reroof (Tear-Off)          | A-1  | Bonded Insulation, Bonded Roof Cover                                                                              | 10   |
| <a href="#">1B</a> | Wood                           | New, Reroof (Tear-Off), Recover | B-1  | Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover                                   | 10   |
| <a href="#">1C</a> | Wood                           | New, Reroof (Tear-Off)          | B-3  | Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover                                          | 10   |
| <a href="#">1D</a> | Wood                           | New, Reroof (Tear-Off), Recover | B-3  | Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover                                          | 14   |
| <a href="#">1E</a> | Wood                           | New, Reroof (Tear-Off), Recover | C-1  | Mechanically Attached Insulation, Bonded Roof Cover                                                               | 17   |
| <a href="#">1F</a> | Wood                           | New, Reroof (Tear-Off), Recover | D-2  | Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                                    | 18   |
| <a href="#">1G</a> | Wood                           | New, Reroof (Tear-Off)          | E-2  | Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                                | 18   |
| <a href="#">1H</a> | Wood                           | New, Reroof (Tear-Off), Recover | E-2  | Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                                | 20   |
| <a href="#">1I</a> | Wood                           | New, Reroof (Tear-Off)          | F    | Non-Insulated, Bonded Roof Cover                                                                                  | 21   |
| <a href="#">2A</a> | Steel                          | New, Reroof (Tear-Off)          | A-1  | Bonded Insulation, Bonded Roof Cover                                                                              | 22   |
| <a href="#">2B</a> | Steel or Structural concrete   | New, Reroof (Tear-Off), Recover | B-1  | Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover                                   | 22   |
| <a href="#">2C</a> | Steel                          | New, Reroof (Tear-Off), Recover | B-2  | Mechanically Attached Thermal Barrier, Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover                 | 33   |
| <a href="#">2D</a> | Steel or Structural concrete   | New, Reroof (Tear-Off), Recover | C-1  | Mechanically Attached Insulation, Bonded Roof Cover                                                               | 37   |
| <a href="#">2E</a> | Steel or Structural concrete   | New, Reroof (Tear-Off), Recover | C-1  | Thermal Barrier with Vapor Barrier, Mechanically Attached Insulation, Bonded Roof Cover                           | 46   |
| <a href="#">2F</a> | Steel or Structural concrete   | New, Reroof (Tear-Off), Recover | C-3  | Bonded and Mechanically Attached Insulation, Bonded Roof Cover                                                    | 47   |
| <a href="#">2G</a> | Steel or Structural concrete   | New, Reroof (Tear-Off), Recover | D-2  | Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                                    | 48   |
| <a href="#">3A</a> | Structural concrete            | New, Reroof (Tear-Off)          | A-1  | Bonded Insulation, Bonded Roof Cover (Base Insulation Layer Only)                                                 | 52   |
| <a href="#">3B</a> | Structural concrete            | New, Reroof (Tear-Off)          | A-1  | Bonded Insulation, Bonded Roof Cover (Base and Top Insulation Layers)                                             | 54   |
| <a href="#">3C</a> | Structural concrete            | New, Reroof (Tear-Off)          | F    | Non-Insulated, Bonded Roof Cover                                                                                  | 61   |
| <a href="#">4A</a> | Deck with Lightweight Concrete | New, Reroof (Tear-Off)          | A-1  | LWC to Deck, Bonded Insulation, Bonded Roof Cover                                                                 | 62   |
| <a href="#">4B</a> | Deck with Lightweight Concrete | New or Reroof (Tear-Off)        | B-3  | LWC to Deck, Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover                             | 62   |
| <a href="#">4C</a> | Deck with Lightweight Concrete | New, Reroof (Tear-Off)          | E-2  | LWC to Deck, Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                   | 63   |
| <a href="#">4D</a> | Deck with Lightweight Concrete | New, Reroof (Tear-Off)          | E-2  | Thermal Barrier to Deck, Vapor Barrier, LWC to Vapor Barrier, Mechanically Attached Base Sheet, Bonded Roof Cover | 69   |
| <a href="#">4E</a> | Deck with Lightweight Concrete | New, Reroof (Tear-Off)          | F    | LWC to Deck, Non-Insulated, Bonded Roof Cover                                                                     | 69   |
| <a href="#">5A</a> | Cementitious wood fiber        | Reroof (Tear-Off)               | A-1  | Bonded Insulation, Bonded Roof Cover                                                                              | 70   |
| <a href="#">5B</a> | Cementitious wood fiber        | New, Reroof (Tear-Off)          | B-3  | Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover                                          | 71   |
| <a href="#">5C</a> | Cementitious wood fiber        | New, Reroof (Tear-Off)          | E-2  | Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                                | 72   |
| <a href="#">6A</a> | Gypsum                         | Reroof (Tear-Off)               | A-1  | Bonded Insulation, Bonded Roof Cover                                                                              | 73   |
| <a href="#">6B</a> | Gypsum                         | Reroof (Tear-Off)               | B-3  | Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover                                          | 73   |
| <a href="#">6C</a> | Gypsum                         | Reroof (Tear-Off)               | E-2  | Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                                | 74   |
| <a href="#">7A</a> | Various                        | Recover                         | A-1  | Bonded Insulation, Bonded Roof Cover (Base Insulation Layer Only)                                                 | 75   |
| <a href="#">7B</a> | Various                        | Recover                         | A-1  | Bonded Insulation, Bonded Roof Cover (Base and Top Insulation Layers)                                             | 83   |

The following notes apply to the systems outlined herein:

- The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with requirements of the applicable Code to the satisfaction of the Authority Having Jurisdiction.
- Unless otherwise noted, fasteners and stress plates shall be as follows. Recessed plates are not for use with cement-based or gypsum-based hardboard coverboards. Fasteners shall be of sufficient length for the following engagements:

| FASTENER/PLATE OPTIONS |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                    |                                                                                                                                                    |
|------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| DECK TYPE              | BY    | PARTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                    | MINIMUM ENGAGEMENT                                                                                                                                 |
|                        |       | LOOSE PARTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PRE-ASSEMBLED PARTS                                                                                                                                                                                                |                                                                                                                                                    |
| Wood                   | GAF   | Drill-Tec #12 Fastener, Drill-Tec #12 DP Fastener, Drill-Tec #12 DPH Fastener, Drill-Tec #14 Fastener or Drill-Tec #14 HD Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate, Drill-Tec AccuTrac Flat Plate, Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec 3" Flat Steel Plate or Drill-Tec 3" Recessed Steel Plate                                                                                                                                                               | Drill-Tec 3" ASAP Flat, Drill-Tec 3" ASAP Recessed, Drill-Tec ASAP 3S or Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate                                                                | Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment                                                                          |
| Steel                  | GAF   | Drill-Tec #12 Fastener, Drill-Tec #12 DP Fastener, Drill-Tec #12 DPH Fastener, Drill-Tec #14 Fastener, Drill-Tec #14 HD Fastener, Drill-Tec XHD Fastener or Drill-Tec #15 EHD Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate, Drill-Tec AccuTrac Flat Plate, Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec 3" Flat Steel Plate or Drill-Tec 3" Recessed Steel Plate                                                                                                           | Drill-Tec 3" ASAP Flat, Drill-Tec 3" ASAP Recessed, Drill-Tec ASAP 3S, Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate or Drill-Tec Extra Heavy Duty ASAP Roofing Fastener – Insulation | Minimum ¾-inch steel penetration and engage the top flute of the steel deck                                                                        |
|                        | Note: | Unless otherwise noted, Drill Tec #12 DF Fastener or Drill Tec #14 DF Fastener with Drill Tec 3" DF Steel Insulation Plate may be used in place of Drill-Tec #12 Fastener or Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate when used to secure min. 0.5-inch thick Structodek Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board to steel deck, up to a maximum allowable design pressure (MDP) of -120.0 psf.                                                    |                                                                                                                                                                                                                    |                                                                                                                                                    |
|                        | Note: | Unless otherwise noted, Drill Tec #12 DF Fastener or Drill Tec #14 DF Fastener with Drill Tec 3" DF Steel Insulation Plate may be used in place of Drill-Tec #12 Fastener or Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate when used to secure min. 0.5-inch thick Structodek High Density Fiberboard Roof Insulation, EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation or min. 1.5-inch EnergyGuard POLYISO INSULATION or EnergyGuard Ultra Polyiso Insulation to steel deck. |                                                                                                                                                                                                                    |                                                                                                                                                    |
| Structural Concrete    | GAF   | Drill-Tec #14 Fastener, Drill-Tec #14 HD Fastener or Drill-Tec CD-10 with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate, Drill-Tec AccuTrac Flat Plate, Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec 3" Flat Steel Plate or Drill-Tec 3" Recessed Steel Plate                                                                                                                                                                                                                             | Drill-Tec 3" ASAP Flat (#14 only) or Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate                                                                                                    | Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions |
|                        | Note: | Unless otherwise noted, Drill Tec #14 DF Fastener with Drill Tec 3" DF Steel Insulation Plate may be used in place of Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate when used to secure min. DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board to structural concrete deck, up to a maximum allowable design pressure (MDP) of -120.0 psf.                                                                                                              |                                                                                                                                                                                                                    |                                                                                                                                                    |
|                        | Note: | Unless otherwise noted, Drill Tec #14 DF Fastener with Drill Tec 3" DF Steel Insulation Plate may be used in place of Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate when used to secure min. 0.5-inch thick Structodek High Density Fiberboard Roof Insulation, EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation or min. 1.5-inch EnergyGuard POLYISO INSULATION or EnergyGuard Ultra Polyiso Insulation to structural concrete deck.                                          |                                                                                                                                                                                                                    |                                                                                                                                                    |

- Unless otherwise noted, insulation may be any one layer or combination of FBC Approved (Local or Statewide) board(s) that meet FBC or IBC 1505 and, for foam plastic, FBC or IBC Chapter 26, when installed with the roof cover.
- Minimum 200 psi, minimum 2-inch thick FBC Approved lightweight insulating concrete may be substituted for, or installed below, rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with requirements of the applicable Code to the satisfaction of the Authority Having Jurisdiction. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck venting or moisture levels within the LWIC and the potential effect on overlying components.
- Preliminary insulation attachment: Unless otherwise noted, use FBC Approved roofing fasteners and plates and refer to Section 2.2.10.1.3 of [FM Loss Prevention Data Sheet 1-29](#).

6 Unless otherwise noted, insulation adhesive application rates are as follows.

- Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions.
- If applying hot asphalt to concrete deck, deck shall be primed with ASTM D41 primer.
- When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.
- The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.

| INSULATION ADHESIVE REFERENCES |                                       |                  |                                 |                                                                                  |
|--------------------------------|---------------------------------------|------------------|---------------------------------|----------------------------------------------------------------------------------|
| By                             | ADHESIVE                              | REFERENCE        | <a href="#">FBC FILE OR NOA</a> | MINIMUM RATE                                                                     |
| GAF                            | GAF LRF Adhesive M                    | 'LRF-M'          | N/A                             | Continuous 0.75 to 1-inch ribbons, 12-inch o.c.                                  |
|                                | GAF LRF Adhesive M Canister           | 'LRF-M Canister' | N/A                             | Continuous 1 to 1.5-inch ribbons, 12-inch o.c.                                   |
|                                | GAF LRF Adhesive XF                   | 'LRF-XF'         | N/A                             | Continuous 0.75 to 1-inch ribbons, 12-inch o.c.                                  |
| H.B. Fuller Company            | Millennium One Step Foamable Adhesive | 'M-OSFA'         | FL1800                          | Continuous 0.25 to 0.5-inch wide ribbons, 12-inch o.c.                           |
| OMG, Inc.                      | OlyBond 500 Adhesive Fastener         | 'OB500'          | FL1608                          | Continuous 0.75-inch wide ribbons, 12-inch o.c. (PaceCart, SpotShot or Canister) |
| Generic, ASTM D312, Type IV    | hot asphalt                           | N/A              | N/A                             | Full coverage at 25-30 lbs/square                                                |

7 Unless otherwise noted, all insulations are flat-stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table.

| MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS |                                                                      |                                 |                             |                           |
|----------------------------------------------------------|----------------------------------------------------------------------|---------------------------------|-----------------------------|---------------------------|
| ADHESIVE                                                 | INSULATION                                                           |                                 | MIN. TAPERED THICKNESS (IN) | <a href="#">MDP (psf)</a> |
|                                                          | LISTED PRODUCT                                                       | <a href="#">FBC FILE OR NOA</a> |                             |                           |
| LRF-M                                                    | EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation | FL16311                         | 0.5                         | -232.5                    |
| LRF-XF                                                   | EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation | FL16311                         | 0.5                         | -292.5                    |
| LRF-XF                                                   | EnergyGuard RA                                                       | NOA 24-0402.09                  | 0.5                         | -487.5                    |
| M-OSFA                                                   | Any EnergyGuard polyisocyanurate listed with adhesive herein         | various                         | 0.5                         | -157.5                    |
| OB500                                                    | EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation | FL16311                         | 0.5                         | -292.5                    |
| OB500                                                    | EnergyGuard RH                                                       | 19-1017.09                      | 0.5                         | -315.0                    |
| OB500                                                    | EnergyGuard RA                                                       | NOA 24-0402.09                  | 0.5                         | -487.5                    |
| Hot asphalt                                              | Any EnergyGuard polyisocyanurate listed with adhesive herein         | Various                         | 0.5                         | -240.0                    |

8 For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of [FM Loss Prevention Data Sheet](#) 1-29.

9 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC or IBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are [ANSI/SPRI](#) WD1, [FM Loss Prevention Data Sheet](#) 1-29, [Roofing Application Standard](#) RAS 117 and RAS 137. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.10.1 of [FM Loss Prevention Data Sheet](#) 1-29 for Zone 2/3 enhancements.

10 For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC or IBC Chapter 16. No rational analysis is permitted for these systems.

11 For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with [ANSI/SPRI](#) FX-1 or [Testing Application Standard](#) TAS 105.

- 12 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with ASTM E907, [FM Loss Prevention Data Sheet](#) 1-52 or [Testing Application Standard](#) TAS 124.

- 12A Reference to “Existing gravel-surfaced asphaltic built-up roof, brushed / spudded and vacuumed to remove loose gravel” in Table 7A is intended to convey an as-tested condition whereby any loose-gravel that does not remain embedded in the asphalt flood coat after brushing and/or spudding be removed. The gravel that remains embedded in the asphalt flood coat remains.



- 13 Refer to FBC or IBC 1511 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional and for System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation ([Note 5](#)). The separator component shall be documented as meeting FBC or IBC 1505 and, for foam plastic, FBC or IBC Chapter 26, when installed with the roof cover in Recover applications.
- 14 **Florida Specific:** Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For “pre-existent” LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.
- 15 For bonded membrane applications, unless otherwise noted, refer to the following.

| MEMBRANE / ADHESIVE COMBINATIONS<br>ROOF COVERS |                   |                                                                                                                                                         |                                                                           |
|-------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| REFERENCE                                       | LAYER             | MATERIAL                                                                                                                                                | APPLICATION                                                               |
| BP-LL                                           | Venting Base Ply: | GAFLAS Stratavent Perforated Venting Base Sheet                                                                                                         | Loose-laid                                                                |
| BP-CA                                           | Base Ply:         | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet                                                                                                           | Matrix 102 SBS<br>Membrane Adhesive<br>at 1.5 gal/sq.                     |
| SBS-CA                                          | Base Ply or Ply:  | Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Plus Smooth                                                                                     |                                                                           |
|                                                 | Cap Ply:          | Ruberoid 30 Granule FR, Ruberoid EnergyCap 30 Granule FR, Ruberoid Mop Granule FR, Ruberoid Mop Plus Granule FR, Ruberoid EnergyCap Mop Plus Granule FR |                                                                           |
| SBS-CA1                                         | Base Ply or Ply:  | Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth                                                            | Matrix 101 Premium<br>SBS Membrane<br>Adhesive at 1.5 – 2.0<br>gal/square |
|                                                 | Cap Ply:          | Ruberoid Mop Smooth 1.5, Ruberoid 30 Granule FR, Ruberoid EnergyCap 30 Granule FR, Ruberoid Mop Plus Granule FR, Ruberoid EnergyCap Mop Plus Granule FR |                                                                           |
| BP-AA                                           | Base Ply:         | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet                                                                             | Hot asphalt at 25<br>lbs/square.                                          |
|                                                 | Ply:              | One or more plies GAFLAS Ply 4, GAFLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFLAS Flex Ply 6, GAFLAS FlexPly 6 M                                          |                                                                           |
| SBS-AA                                          | Base Ply or Ply:  | One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5, Ruberoid Mop Plus Smooth                                             |                                                                           |

| MEMBRANE / ADHESIVE COMBINATIONS<br>ROOF COVERS |                  |                                                                                                                                                                                                                                                                                                                                                      |               |
|-------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| REFERENCE                                       | LAYER            | MATERIAL                                                                                                                                                                                                                                                                                                                                             | APPLICATION   |
|                                                 | Cap Ply:         | Ruberoid 30 Granule, Ruberoid 30 Granule FR, Ruberoid EnergyCap 30 Granule FR, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5, Ruberoid Mop Plus Smooth, Ruberoid Mop Granule FR, Ruberoid Mop Granule, Tri-Ply SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid Mop Plus Granule FR, Ruberoid Mop Plus Granule, Ruberoid EnergyCap Mop Plus Granule FR |               |
| SBS-TA                                          | Base Ply or Ply: | One or two plies Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth, Ruberoid HW 30 Smooth or Ruberoid HW Smooth                                                                                                                                                                                                                                           | Torch-applied |
|                                                 | Cap Ply:         | Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth, Ruberoid HW 30 Smooth, Ruberoid HW Smooth, Ruberoid HW 30 Granule FR, Ruberoid EnergyCap HW 30 Granule FR, Ruberoid HW Granule, Ruberoid HW Granule FR, Ruberoid HW Plus Granule, Ruberoid HW Plus Granule FR, Ruberoid EnergyCap HW Plus Granule FR                                                   |               |
| APP-TA                                          | Base Ply or Ply: | One or two plies Ruberoid Torch Smooth, Tri-Ply APP Smooth Membrane                                                                                                                                                                                                                                                                                  | Torch-applied |
|                                                 | Cap Ply:         | Ruberoid Torch Granule, Tri-Ply APP Granule Membrane, Ruberoid Torch Plus Granule FR, Ruberoid EnergyCap Torch Granule FR, Ruberoid EnergyCap Torch Plus Granule FR                                                                                                                                                                                  |               |
| SBS-SA                                          | Base Ply or Ply: | Liberty SBS Self-Adhering Base/Ply Sheet                                                                                                                                                                                                                                                                                                             | Self-adhering |
|                                                 | Cap Ply          | Liberty SBS Self-Adhering Cap Sheet                                                                                                                                                                                                                                                                                                                  |               |

*Note: Systems with a smooth-surfaced cap ply shall be surfaced in accordance with GAF requirements, meeting the fire resistance requirements of FBC Section 1505. Refer to FBC Section 1504.8 for limitations in the use of aggregate surfacing.*

| MEMBRANE / ADHESIVE COMBINATIONS<br>VAPOR BARRIERS |                                                                                                                                                                    |                                                 |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| REFERENCE                                          | MATERIAL                                                                                                                                                           | APPLICATION                                     |
| VB-APP-TA (smooth)                                 | Ruberoid Torch Smooth                                                                                                                                              | Torch-applied                                   |
| VB-APP-TA (granule)                                | Ruberoid Torch Granule                                                                                                                                             | Torch-applied                                   |
| VB-BP1-AA                                          | One or more GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet                                                                          | Hot asphalt at 25 lbs/square.                   |
| VB-BP2-AA                                          | One or two plies, GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6 or GAFGLAS FlexPly 6 M                                                |                                                 |
| VB-SBS-AA                                          | Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5, Ruberoid Mop Plus Smooth, Ruberoid 30 Granule or Ruberoid Mop Granule, Ruberoid Mop Plus Granule | Hot asphalt at 25 lbs/square.                   |
| VB-SBS-CA                                          | Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5, Ruberoid Mop Plus Smooth, Ruberoid 30 Granule or Ruberoid Mop Granule, Ruberoid Mop Plus Granule | Matrix 102 SBS Membrane Adhesive at 1.5 gal/sq. |
| VB-SBS-SA                                          | Liberty SBS Self-Adhering Cap Sheet                                                                                                                                | Self-adhering                                   |
| VB-SBS-TA                                          | Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth, Ruberoid HW 30 Smooth, Ruberoid HW Smooth, Ruberoid HW Granule or Ruberoid HW Plus Granule                           | Torch-applied                                   |

16 **Thermal Barrier and/or Vapor Barrier Options:**

16A **Structural Concrete Decks:** The lesser of the MDP listings below vs. that for the selected assembly applies.

| STRUCTURAL CONCRETE DECK: VAPOR BARRIER FOLLOWED BY ADHERED INSULATION |                                                      |                                                                   |                             |                                                  |                           |
|------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------|-----------------------------|--------------------------------------------------|---------------------------|
| OPTION #                                                               | PRIMER                                               | VAPOR BARRIER <a href="#">(NOTE 15)</a>                           |                             | INSULATION ADHESIVE PER <a href="#">TABLE 3A</a> | MDP <a href="#">(PSF)</a> |
|                                                                        |                                                      | TYPE                                                              | APPLICATION                 |                                                  |                           |
| C-VB-1.                                                                | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-APP-TA (granule)                                               | Torch-applied               | Hot asphalt                                      | -225.0                    |
| C-VB-2.                                                                | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-BP-AA1                                                         | Hot asphalt applied         | Hot asphalt                                      | -360.0                    |
| C-VB-3.                                                                | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-BP2-AA or VB-SBS-AA                                            | Hot asphalt applied         | Hot asphalt                                      | -495.0                    |
| C-VB-4.                                                                | None                                                 | GAF SA Vapor Retarder XL                                          | Self-adhering               | LRF-M, 12-inch o.c.                              | -180.0                    |
| C-VB-5.                                                                | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-APP-TA (granule), VB-SBS-AA, VB-SBS-CA, VB-SBS-SA or VB-SBS-TA | See <a href="#">Note 15</a> | LRF-M, 12-inch o.c.                              | -180.0                    |
| C-VB-6.                                                                | GAF SA Primer                                        | GAF SA Vapor Retarder                                             | Self-adhering               | LRF-M, 12-inch o.c.                              | -202.5                    |
| C-VB-7.                                                                | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-BP1-AA, VB-BP2-AA or VB-SBS-AA                                 | Hot asphalt applied         | LRF-M, 12-inch o.c.                              | -495.0                    |

| STRUCTURAL CONCRETE DECK: VAPOR BARRIER FOLLOWED BY ADHERED INSULATION |                                                      |                                                                   |                                                    |                                                     |              |
|------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|--------------|
| OPTION #                                                               | PRIMER                                               | VAPOR BARRIER <a href="#">(NOTE 15)</a>                           |                                                    | INSULATION ADHESIVE PER<br><a href="#">TABLE 3A</a> | MDP<br>(PSF) |
|                                                                        |                                                      | TYPE                                                              | APPLICATION                                        |                                                     |              |
| C-VB-8.                                                                | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-APP-TA (granule)                                               | Torch-applied                                      | LRF-XF, 12-inch o.c.                                | -169.0       |
| C-VB-9.                                                                | None                                                 | GAF SA Vapor Retarder XL                                          | Self-adhering                                      | LRF-XF 12-inch o.c.                                 | -180.0       |
| C-VB-10.                                                               | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-APP-TA (granule), VB-SBS-AA, VB-SBS-CA, VB-SBS-SA or VB-SBS-TA | See <a href="#">Note 15</a>                        | LRF-XF, 12-inch o.c.                                | -180.0       |
| C-VB-11.                                                               | GAF SA Primer                                        | GAF SA Vapor Retarder                                             | Self-adhering                                      | LRF-XF, 12-inch o.c.                                | -202.5       |
| C-VB-12.                                                               | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-SBS-SA                                                         | Self-adhering                                      | LRF-XF, 12-inch o.c.                                | -250.0       |
| C-VB-13.                                                               | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-BP1-AA, VB-BP2-AA or VB-SBS-AA                                 | Hot asphalt applied                                | LRF-XF, 12-inch o.c.                                | -262.5       |
| C-VB-14.                                                               | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid 30                                                       | Hot asphalt applied                                | LRF-XF, 12-inch o.c.                                | -270.0       |
| C-VB-15.                                                               | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-APP-TA (smooth)                                                | Torch-applied                                      | OB500, 12-inch o.c.                                 | -165.0       |
| C-VB-16.                                                               | None                                                 | GAF SA Vapor Retarder XL                                          | Self-adhering                                      | OlyBond 500, 12-inch o.c.                           | -180.0       |
| C-VB-17.                                                               | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-SBS-AA, VB-SBS-CA, VB-SBS-SA or VB-SBS-TA                      | See <a href="#">Note 15</a>                        | OB500, 12-inch o.c.                                 | -180.0       |
| C-VB-18.                                                               | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-SBS-SA                                                         | Self-adhering                                      | OB500, 12-inch o.c.                                 | -187.5       |
| C-VB-19.                                                               | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid 20 Smooth                                                | Matrix 102 SBS Membrane Adhesive at 1.5 gal/square | OB500, 12-inch o.c.                                 | -202.5       |
| C-VB-20.                                                               | GAF SA Primer                                        | GAF SA Vapor Retarder                                             | Self-adhering                                      | OB500, 12-inch o.c.                                 | -202.5       |
| C-VB-21.                                                               | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-APP-TA (granule)                                               | Torch-applied                                      | OB500, 12-inch o.c.                                 | -225.0       |
| C-VB-22.                                                               | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid HW Smooth                                                | Torch-applied                                      | OB500, 12-inch o.c.                                 | -232.5       |
| C-VB-23.                                                               | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | VB-BP1-AA, VB-BP2-AA or VB-SBS-AA                                 | Hot asphalt applied                                | OB500, 12-inch o.c.                                 | -352.5       |

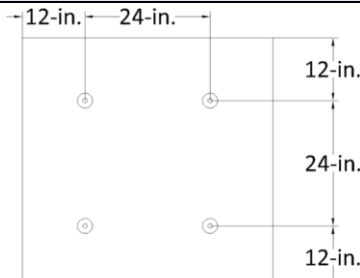
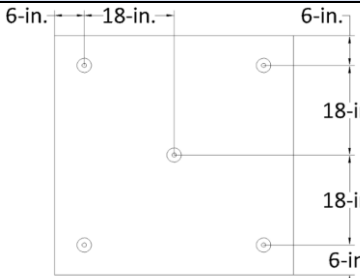
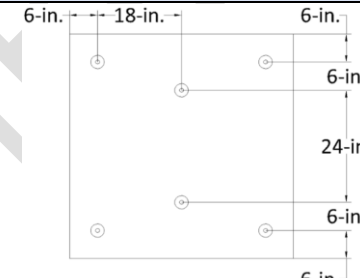
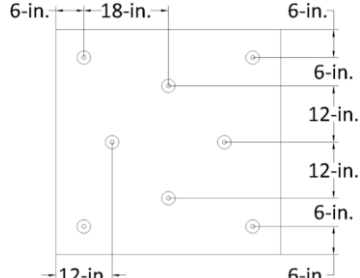
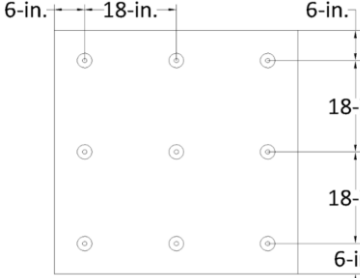
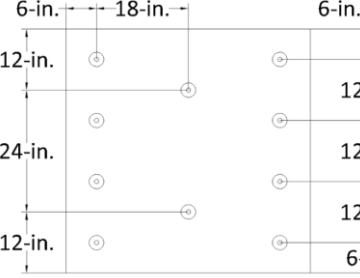
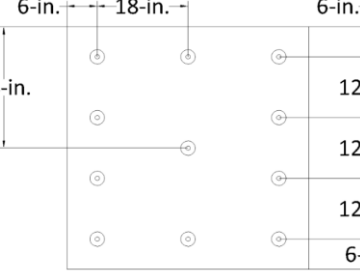
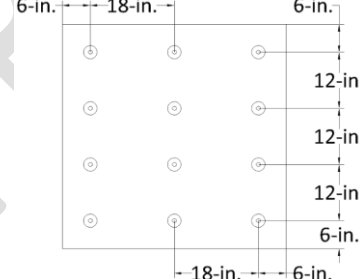
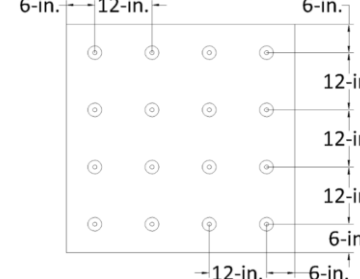
16B Decks followed by Vapor Barrier followed by Lightweight Concrete (LWC): The lesser of the MDP listings below vs. that for the selected assembly from the Lightweight Concrete tables applies:

| DECK FOLLOWED BY VAPOR BARRIER FOLLOWED BY CELLULAR LIGHTWEIGHT INSULATING CONCRETE |                                                      |                                                                                                                                                                                                                                                         |               |                                                                     |              |
|-------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------|--------------|
| OPTION #                                                                            | PRIMER                                               | VAPOR BARRIER                                                                                                                                                                                                                                           |               | LIGHTWEIGHT CONCRETE PER<br><a href="#">TABLE 4A – 4E (NOTE 14)</a> | MDP<br>(PSF) |
|                                                                                     |                                                      | TYPE                                                                                                                                                                                                                                                    | ATTACH        |                                                                     |              |
| LWC-VB-1.                                                                           | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Base Ply (Optional): One or two plies Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth, Ruberoid HW 30 Smooth or Ruberoid HW Smooth followed by Cap Ply: Ruberoid HW Granule, Ruberoid HW Granule FR, Ruberoid HW Plus Granule, Ruberoid HW Plus Granule FR | Torch-applied | Min. 200 psi Mearlcrete (FL13492)                                   | -82.5        |
| LWC-VB-2.                                                                           | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Base Ply (Optional): One or two plies Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth, Ruberoid HW 30 Smooth or Ruberoid HW Smooth followed by Cap Ply: Ruberoid HW Granule, Ruberoid HW Granule FR, Ruberoid HW Plus Granule, Ruberoid HW Plus Granule FR | Torch-applied | Min. 300 psi Celcore Cellular Concrete (FL2037)                     | -135.0       |
| LWC-VB-3.                                                                           | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Base Ply (Optional): One or two plies Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth, Ruberoid HW 30 Smooth or Ruberoid HW Smooth followed by Cap Ply: Ruberoid HW Granule, Ruberoid HW Granule FR, Ruberoid HW Plus Granule, Ruberoid HW Plus Granule FR | Torch-applied | Min. 300 psi Elastizell (FL4994)                                    | -302.5       |
| LWC-VB-4.                                                                           | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth, Ruberoid HW 30 Smooth or Ruberoid HW Smooth                                                                                                                                                               | Torch-applied | Min. 540 psi pre-existent cellular LWC                              | -358.0       |

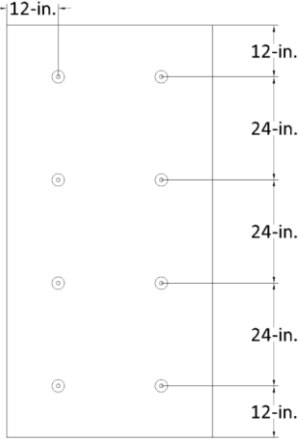
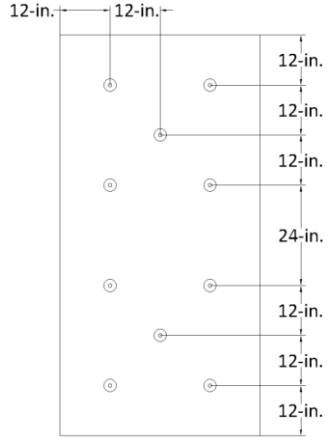
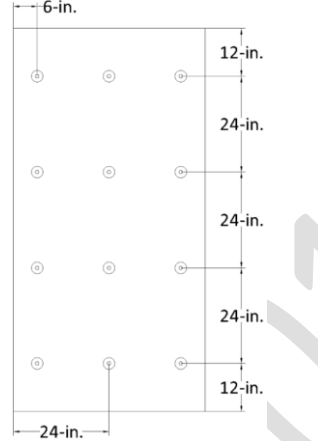
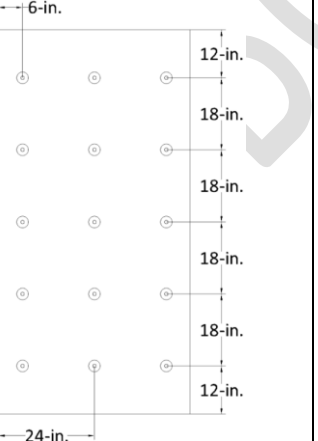
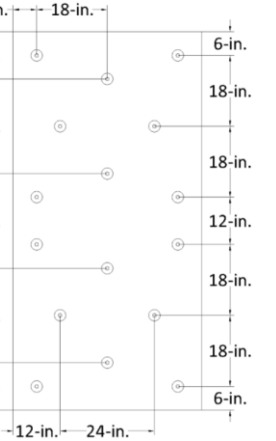
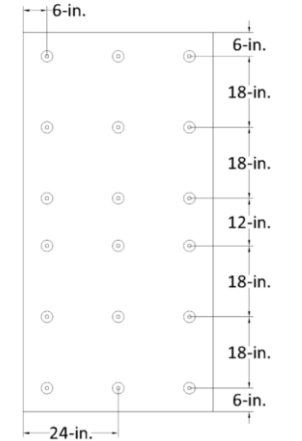
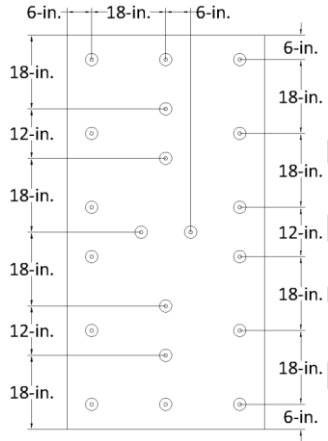
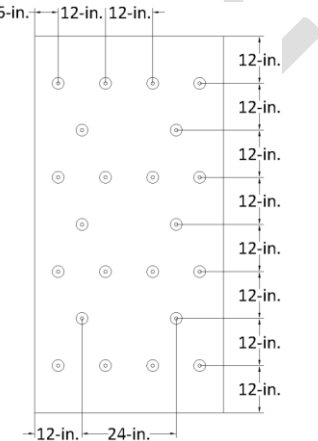
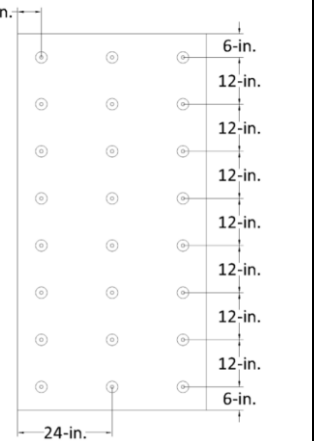
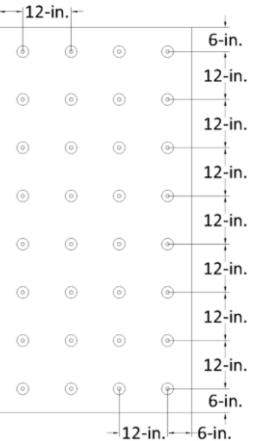
16C For System Types B-1, B-2, C-1, C-2, D-1 or D-2, GAF SA Vapor Retarder or GAF SA Vapor Retarder XL may be installed atop the roof deck, or to a loose-laid thermal barrier of DensDeck, DensDeck Prime, DensDeck StormX Prime, DEXcell Glass Mat Roof Board, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Ultralight Coated Glass Mat Roof Board or SECUROCK Cement Roof Board, prior to installation of the insulation and roof cover. When adhering GAF SA Vapor Retarder to structural concrete, the substrate shall be primed with GAF SA Primer, TPO QSA or TPO QSA LV50. When adhering GAF SA Vapor Retarder to gypsum or cement boards, the substrate shall be primed with GAF SA Primer, TPO QSA, TPO QSA LV50 or Matrix 307 Premium Asphalt Primer. Refer to [FM Loss Prevention Data Sheet](#) 1-29 for design and installation limitations.

16D Fire barrier of VersaShield® Solo™ Fire-Resistant Slip Sheet is optional in all assemblies when overlying components are mechanically fastened.

17 Unless otherwise noted, insulation or coverboard attachment patterns for Type B-1, Type B-2, Type C-1 and C-2 systems are as outlined below.

| INSULATION ATTACHMENT PATTERNS – 4x4 FT BOARDS                                                                                            |                                                                                                                                           |                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>1 per 4.0 ft<sup>2</sup> (4 per board)</b></p>    |  <p><b>1 per 3.2 ft<sup>2</sup> (5 per board)</b></p>   |  <p><b>1 per 2.7 ft<sup>2</sup> (6 per board)</b></p>   |
|  <p><b>1 per 2.0 ft<sup>2</sup> (8 per board)</b></p>    |  <p><b>1 per 1.8 ft<sup>2</sup> (9 per board)</b></p>   |  <p><b>1 per 1.6 ft<sup>2</sup> (10 per board)</b></p>  |
|  <p><b>1 per 1.45 ft<sup>2</sup> (11 per board)</b></p> |  <p><b>1 per 1.3 ft<sup>2</sup> (12 per board)</b></p> |  <p><b>1 per 1.0 ft<sup>2</sup> (16 per board)</b></p> |

**INSULATION ATTACHMENT PATTERNS – 4x8 FT BOARDS**

|                                                                                                                                          |                                                                                                                                          |                                                                                                                                            |                                                                                                                                            |                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>1 per 4.0 ft<sup>2</sup> (8 per board)</b></p>   |  <p><b>1 per 3.2 ft<sup>2</sup> (10 per board)</b></p>  |  <p><b>1 per 2.7 ft<sup>2</sup> (12 per board)</b></p>   |  <p><b>1 per 2.1 ft<sup>2</sup> (15 per board)</b></p>  |  <p><b>1 per 2.0 ft<sup>2</sup> (16 per board)</b></p>  |
|  <p><b>1 per 1.8 ft<sup>2</sup> (18 per board)</b></p> |  <p><b>1 per 1.6 ft<sup>2</sup> (20 per board)</b></p> |  <p><b>1 per 1.45 ft<sup>2</sup> (22 per board)</b></p> |  <p><b>1 per 1.3 ft<sup>2</sup> (24 per board)</b></p> |  <p><b>1 per 1.0 ft<sup>2</sup> (32 per board)</b></p> |

18 The following products are interchangeable within the scope of this PEER:

| ACCEPTABLE ALTERNATES |                             |                                                    |                                         |                                                                                                                                    |
|-----------------------|-----------------------------|----------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| SUB-CATEGORY          | MANUFACTURER                | <a href="#">FBC FILE</a> OR<br><a href="#">NOA</a> | LISTED PRODUCT HEREIN                   | ALTERNATE                                                                                                                          |
| Roofing Insulation    | GAF                         | FL16311                                            | EnergyGuard Polyiso Insulation          | EnergyGuard NH Polyiso Insulation                                                                                                  |
|                       |                             |                                                    | EnergyGuard Ultra Polyiso Insulation    | EnergyGuard NH Ultra Polyiso Insulation                                                                                            |
|                       |                             |                                                    | EnergyGuard HD Polyiso Cover Board      | EnergyGuard HD Barrier Polyiso Cover Board, EnergyGuard NH HD Polyiso Cover Board or EnergyGuard NH HD Barrier Polyiso Cover Board |
|                       |                             |                                                    | EnergyGuard HD Plus Polyiso Cover Board | EnergyGuard NH HD Plus Polyiso Cover Board                                                                                         |
|                       | Georgia-Pacific Gypsum, LLC | FL1250                                             | DensDeck Prime                          | DensDeck StormX Prime Roof Board                                                                                                   |
| Vapor Barrier         | GAF                         | N/A                                                | GAF SA Vapor Retarder XL                | GAF SA Vapor Retarder XL40                                                                                                         |

19 “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC or IBC 1609 for determination of design wind loads. [\(Notes 9 and 10\)](#)

**TABLE 1A: WOOD DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

| Sys No. | Deck<br>(Note 1)                          | Base Insulation Layer                                                                                              |                         | Top Insulation Layer                                              |                         | Roof Cover (Note 15)            |                                                        |                          | MDP<br>(psf) |
|---------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|--------------------------|--------------|
|         |                                           | Type                                                                                                               | Attach<br>(Notes 6,7,8) | Type                                                              | Attach<br>(Notes 6,7,8) | Base Ply                        | Ply                                                    | Cap Ply                  |              |
| W-1.    | Min. 19/32-inch plywood or OSB; 2 ft span | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF                  | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF                  | BP-AA, SBS-AA, SBS-TA or APP-TA | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -52.5        |

**TABLE 1B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>(Note 1)                                        | Base Insulation Layer                                                              |                                                      |                           | Top Insulation Layer                                                                                                                                                           |                         | Roof Cover (Note 15) |                           |                | MDP<br>(psf) |
|------------|---------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------|---------------------------|----------------|--------------|
|            |                                                         | Type                                                                               | Fastener<br>(Note 2, Note 11)                        | Attach<br>(Note 17)       | Type                                                                                                                                                                           | Attach<br>(Notes 6,7,8) | Base Ply             | Ply                       | Cap Ply        |              |
| W-2.       | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | Min. 1-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation | Drill-Tec #12 Fastener with Drill-Tec 3" Steel Plate | 1 per 1.8 ft <sup>2</sup> | Optional additional layer(s), min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | LRF-XF                  | SBS-SA               | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -52.5        |

**TABLE 1c: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No.            | Deck<br><a href="#">(Note 1)</a>                        | Anchor Sheet                                                                                                                                      |                                                                       |                                                                                               | Base Insulation                                                                                                                            |                                         | Top Insulation                                                    |                                         | Roof Cover <a href="#">(Note 15)</a> |                                          |                        | <a href="#">MDP (psf)</a> |
|-----------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|-----------------------------------------|--------------------------------------|------------------------------------------|------------------------|---------------------------|
|                       |                                                         | Type                                                                                                                                              | Fastener<br><a href="#">(Note 11)</a>                                 | Attach                                                                                        | Type                                                                                                                                       | Attach<br><a href="#">(Notes 6,7,8)</a> | Type                                                              | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                                      | Cap Ply                |                           |
| CONVENTIONAL SYSTEMS: |                                                         |                                                                                                                                                   |                                                                       |                                                                                               |                                                                                                                                            |                                         |                                                                   |                                         |                                      |                                          |                        |                           |
| W-3.                  | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Hot asphalt                             | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -45.0                     |
| W-4.                  | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                             | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                             | BP-AA, SBS-AA, SBS-TA, APP-TA        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -45.0                     |

**TABLE 1c: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                      | Anchor Sheet                                                                                                                                               |                                                                           |                                                                                                   | Base Insulation                                                                                                                            |                                           | Top Insulation                                                    |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                          |                        | <a href="#">MDP</a><br>( <a href="#">psf</a> ) |
|------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|----------------------------------------|------------------------------------------|------------------------|------------------------------------------------|
|            |                                                         | Type                                                                                                                                                       | Fastener<br>( <a href="#">Note 11</a> )                                   | Attach                                                                                            | Type                                                                                                                                       | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                      | Cap Ply                |                                                |
| W-5.       | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #80 Ultima Base Sheet, GAFGlas StrataVent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails     | 9-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                               | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Hot asphalt                               | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -45.0                                          |
| W-6.       | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #80 Ultima Base Sheet, GAFGlas StrataVent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails     | 9-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                               | BP-AA, SBS-AA, SBS-TA, APP-TA          | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -45.0                                          |
| W-7.       | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGlas #80 Ultima Base Sheet, GAFGlas StrataVent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails | 6-inch o.c. at the 4-inch lap and 6-inch o.c. in two staggered center rows                        | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                               | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Hot asphalt                               | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -52.5                                          |
| W-8.       | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGlas #80 Ultima Base Sheet, GAFGlas StrataVent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails | 6-inch o.c. at the 4-inch lap and 6-inch o.c. in two staggered center rows                        | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                               | BP-AA, SBS-AA, SBS-TA, APP-TA          | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -52.5                                          |
| W-9.       | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGlas #80 Ultima Base Sheet, GAFGlas StrataVent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails | 8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows                        | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                               | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Hot asphalt                               | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -52.5                                          |

**TABLE 1c: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No.                     | Deck<br>(Note 1)                                        | Anchor Sheet                                                                                                                                               |                                                                           |                                                                                                   | Base Insulation                                                                                                                            |                         | Top Insulation                                                    |                         | Roof Cover (Note 15)          |                                          |                          | MDP<br>(psf) |
|--------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------|-------------------------|-------------------------------|------------------------------------------|--------------------------|--------------|
|                                |                                                         | Type                                                                                                                                                       | Fastener<br>(Note 11)                                                     | Attach                                                                                            | Type                                                                                                                                       | Attach<br>(Notes 6,7,8) | Type                                                              | Attach<br>(Notes 6,7,8) | Base Ply                      | Ply                                      | Cap Ply                  |              |
| W-10.                          | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails | 8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows                        | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt             | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt             | BP-AA, SBS-AA, SBS-TA, APP-TA | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA   | -52.5        |
| W-11.                          | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails     | 9-inch o.c. at the min. 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows  | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Hot asphalt             | BP-AA, SBS-AA                 | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA   | -60.0        |
| W-12.                          | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails     | 9-inch o.c. at the min. 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows  | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt             | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt             | BP-AA, SBS-AA, SBS-TA, APP-TA | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA   | -60.0        |
| <b>SELF-ADHERING BASE PLY:</b> |                                                         |                                                                                                                                                            |                                                                           |                                                                                                   |                                                                                                                                            |                         |                                                                   |                         |                               |                                          |                          |              |
| W-13.                          | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails     | 9-inch o.c. at the min. 2-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt             | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt             | SBS-SA                        | (Optional) SBS-SA, SBS-TA or APP-TA      | SBS-SA, SBS-TA or APP-TA | -45.0        |
| <b>VENTING SYSTEMS:</b>        |                                                         |                                                                                                                                                            |                                                                           |                                                                                                   |                                                                                                                                            |                         |                                                                   |                         |                               |                                          |                          |              |
| W-14.                          | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails     | 8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows     | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso                                 | Hot asphalt             | (Optional) Additional layer(s) base insulation                    | Hot asphalt             | BP-LL                         | (Optional) BP-AA, SBS-AA                 | SBS-AA                   | -45.0        |

**TABLE 1c: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                      | Anchor Sheet                                                                                                                                               |                                                                           |                                                                                                   | Base Insulation                                                                                            |                                           | Top Insulation                                 |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                          |         | <a href="#">MDP (psf)</a> |
|------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------|---------|---------------------------|
|            |                                                         | Type                                                                                                                                                       | Fastener<br>( <a href="#">Note 11</a> )                                   | Attach                                                                                            | Type                                                                                                       | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                           | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                      | Cap Ply |                           |
| W-15.      | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails     | 9-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | Hot asphalt                               | (Optional) Additional layer(s) base insulation | Hot asphalt                               | BP-LL                                  | (Optional) BP-AA, SBS-AA | SBS-AA  | -45.0                     |
| W-16.      | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails     | 6-inch o.c. at min. 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows     | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | Hot asphalt                               | (Optional) Additional layer(s) base insulation | Hot asphalt                               | BP-LL                                  | (Optional) BP-AA, SBS-AA | SBS-AA  | -52.5                     |
| W-17.      | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails | 8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows                        | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | Hot asphalt                               | (Optional) Additional layer(s) base insulation | Hot asphalt                               | BP-LL                                  | (Optional) BP-AA, SBS-AA | SBS-AA  | -52.5                     |
| W-18.      | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails     | 9-inch o.c. at the min. 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows  | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | Hot asphalt                               | (Optional) Additional layer(s) base insulation | Hot asphalt                               | BP-LL                                  | (Optional) BP-AA, SBS-AA | SBS-AA  | -60.0                     |

**TABLE 1D: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No.            | Deck<br><a href="#">(Note 1)</a>                        | Anchor Sheet                                                                                                                                      |                                               |                                                                                                    | Base Insulation                                                                                                                            |                                         | Top Insulation                                                    |                                         | Roof Cover <a href="#">(Note 15)</a> |                                          |                        | <a href="#">MDP (psf)</a> |
|-----------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|-----------------------------------------|--------------------------------------|------------------------------------------|------------------------|---------------------------|
|                       |                                                         | Type                                                                                                                                              | Fastener<br><a href="#">(Note 2, Note 11)</a> | Attach                                                                                             | Type                                                                                                                                       | Attach<br><a href="#">(Notes 6,7,8)</a> | Type                                                              | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                                      | Cap Ply                |                           |
| CONVENTIONAL SYSTEMS: |                                                         |                                                                                                                                                   |                                               |                                                                                                    |                                                                                                                                            |                                         |                                                                   |                                         |                                      |                                          |                        |                           |
| W-19.                 | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2                                        | 12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Hot asphalt                             | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -45.0                     |
| W-20.                 | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2                                        | 12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                             | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                             | BP-AA, SBS-AA, SBS-TA, APP-TA        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -45.0                     |
| W-21.                 | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2 (#14 ONLY)                             | 16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Hot asphalt                             | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -52.5                     |
| W-22.                 | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2 (#14 ONLY)                             | 16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                             | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                             | BP-AA, SBS-AA, SBS-TA, APP-TA        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -52.5                     |
| W-23.                 | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2 (#14 ONLY)                             | 12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Hot asphalt                             | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -60.0                     |

**TABLE 1D: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

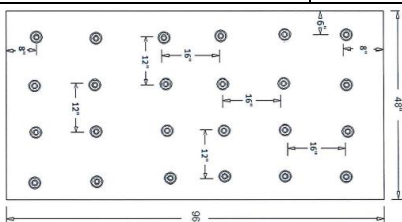
| System No. | Deck<br>( <a href="#">Note 1</a> )                      | Anchor Sheet                                                                                                                                   |                                                                     |                                                                                                      | Base Insulation                                                                                                                            |                                                              | Top Insulation                                                    |                                                              | Roof Cover ( <a href="#">Note 15</a> ) |                                             |                        | <a href="#">MDP</a><br>( <a href="#">psf</a> ) |
|------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------|---------------------------------------------|------------------------|------------------------------------------------|
|            |                                                         | Type                                                                                                                                           | Fastener<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach                                                                                               | Type                                                                                                                                       | Attach<br>( <a href="#">Notes</a><br><a href="#">6,7,8</a> ) | Type                                                              | Attach<br>( <a href="#">Notes</a><br><a href="#">6,7,8</a> ) | Base Ply                               | Ply                                         | Cap Ply                |                                                |
| W-24.      | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2 (#14 ONLY)                                                   | 12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows   | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                                                  | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                                                  | BP-AA, SBS-AA, SBS-TA, APP-TA          | (Optional)<br>BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -60.0                                          |
| W-25.      | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2                                                              | 12-inch o.c. at the min. 2-inch lap and 12-inch o.c. in three, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                                                  | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Hot asphalt                                                  | BP-AA, SBS-AA                          | (Optional)<br>BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -60.0                                          |
| W-26.      | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2                                                              | 12-inch o.c. at the min. 2-inch lap and 12-inch o.c. in three, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                                                  | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                                                  | BP-AA, SBS-AA, SBS-TA, APP-TA          | (Optional)<br>BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -60.0                                          |
| W-27.      | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2 (#14 ONLY)                                                   | 8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows                         | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                                                  | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Hot asphalt                                                  | BP-AA, SBS-AA                          | (Optional)<br>BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -75.0*                                         |
| W-28.      | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2 (#14 ONLY)                                                   | 8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows                         | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA | Hot asphalt                                                  | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                                                  | BP-AA, SBS-AA, SBS-TA, APP-TA          | (Optional)<br>BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -82.5                                          |

**VENTING SYSTEMS:**

**TABLE 1D: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                      | Anchor Sheet                                                                                                                                   |                                                                     |                                                                                                    | Base Insulation                                                                                            |                                                              | Top Insulation                                 |                                                              | Roof Cover ( <a href="#">Note 15</a> ) |                           |                        | <a href="#">MDP</a><br>( <a href="#">psf</a> ) |
|------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------|----------------------------------------|---------------------------|------------------------|------------------------------------------------|
|            |                                                         | Type                                                                                                                                           | Fastener<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach                                                                                             | Type                                                                                                       | Attach<br>( <a href="#">Notes</a><br><a href="#">6,7,8</a> ) | Type                                           | Attach<br>( <a href="#">Notes</a><br><a href="#">6,7,8</a> ) | Base Ply                               | Ply                       | Cap Ply                |                                                |
| W-29.      | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2 (#14 ONLY)                                                   | 16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | Hot asphalt                                                  | (Optional) Additional layer(s) base insulation | Hot asphalt                                                  | BP-LL                                  | One or more BP-AA, SBS-AA | SBS-AA, SBS-TA, APP-TA | -52.5                                          |
| W-30.      | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFLAS #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth                         | Note 2 (#14 ONLY)                                                   | 12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | Hot asphalt                                                  | (Optional) Additional layer(s) base insulation | Hot asphalt                                                  | BP-LL                                  | One or more BP-AA, SBS-AA | SBS-AA, SBS-TA, APP-TA | -60.0                                          |
| W-31.      | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2 (#14 ONLY)                                                   | 8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows                       | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | Hot asphalt                                                  | (Optional) Additional layer(s) base insulation | Hot asphalt                                                  | BP-LL                                  | One or more BP-AA, SBS-AA | SBS-AA, SBS-TA, APP-TA | -82.5*                                         |

**TABLE 1E: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No.                                                                            | Deck<br><a href="#">(Note 1)</a>                        | Base Insulation Layer<br><a href="#">(Note 3, Note 13)</a>      | Top Insulation Layer                                              |                                                     |                                     | Roof Cover <a href="#">(Note 15)</a> |                                          |                        | <a href="#">MDP (psf)</a> |
|---------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------|--------------------------------------|------------------------------------------|------------------------|---------------------------|
|                                                                                       |                                                         |                                                                 | Type                                                              | Fastener<br><a href="#">(Note 2, Note 11)</a>       | Attach<br><a href="#">(Note 17)</a> | Base Ply                             | Ply                                      | Cap Ply                |                           |
| CONVENTIONAL SYSTEMS:                                                                 |                                                         |                                                                 |                                                                   |                                                     |                                     |                                      |                                          |                        |                           |
| W-32.                                                                                 | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | Min. 0.75-inch, one or more layers, any combination, loose laid | Min. 1-inch Structodek High Density Fiberboard Roof Insulation    | Note 2                                              | 1 per 2.0 ft2                       | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -45.0                     |
| W-33.                                                                                 | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | (Optional) One or more layers, any combination, loose laid      | Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board                   | Note 2 (#14 only)                                   | 1 per 1.8 ft2                       | BP-AA, SBS-AA, SBS-TA, APP-TA        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -60.0                     |
| SELF-ADHERING BASE PLY:                                                               |                                                         |                                                                 |                                                                   |                                                     |                                     |                                      |                                          |                        |                           |
| W-34.                                                                                 | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | (Optional) One or more layers, any combination, loose laid      | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                      | Note 2 (#14 Fastener only)                          | 1 per 2.0 ft2                       | SBS-SA                               | (Optional) SBS-SA                        | SBS-SA                 | -45.0                     |
| W-35.                                                                                 | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | (Optional) One or more layers, any combination, loose laid      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra   | Drill-Tec #12 Fastener and Drill-Tec 3" Steel Plate | 1 per 1.8 ft²                       | SBS-SA                               | (Optional) SBS-TA, APP-TA                | SBS-TA, APP-TA         | -52.5                     |
| W-36.                                                                                 | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | (Optional) One or more layers, any combination, loose laid      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra   | Drill-Tec #12 Fastener and Drill-Tec 3" Steel Plate | 1 per 1.6 ft²                       | SBS-SA                               | (Optional) SBS-TA, APP-TA                | SBS-TA, APP-TA         | -60.0                     |
| VENTING SYSTEMS:                                                                      |                                                         |                                                                 |                                                                   |                                                     |                                     |                                      |                                          |                        |                           |
| W-37.                                                                                 | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | (Optional) One or more layers, any combination, loose laid      | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra | Note 2                                              | 1 per 1.3 ft²                       | BP-LL                                | (Optional) One or more BP-AA, SBS-AA     | SBS-AA                 | -60.0*                    |
| COLD-APPLIED SYSTEMS:                                                                 |                                                         |                                                                 |                                                                   |                                                     |                                     |                                      |                                          |                        |                           |
| W-38.                                                                                 | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | (Optional) One or more layers, any combination, loose laid      | Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board                   | Note 2 (#14 fasteners only)                         | 1 per 2.0 ft²                       | SBS-CA1                              | (Optional) SBS-CA1                       | SBS-CA1                | -45.0*                    |
| W-39.                                                                                 | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | (Optional) One or more layers, any combination, loose laid      | Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board                   | Note 2 (#14 fasteners only)                         | 1 per 1.8 ft²                       | SBS-CA1                              | (Optional) SBS-CA1                       | SBS-CA1                | -60.0                     |
| W-40.                                                                                 | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | (Optional) One or more layers, any combination, loose laid      | Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board                   | Note 2 (#14 fasteners only)                         | 1 per 1.3 ft²                       | SBS-CA1                              | (Optional) SBS-CA1                       | SBS-CA1                | -82.5                     |
|  |                                                         |                                                                 |                                                                   |                                                     |                                     |                                      |                                          |                        |                           |

**TABLE 1F: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

| System No.              | Deck<br><a href="#">(Note 1)</a>                        | Insulation Layer(s)<br><a href="#">(Note 3, Note 13)</a> |               | Base Sheet                                                                                                                        |                                               |                                                                                                   | Roof Cover <a href="#">(Note 15)</a> |                          |                                | <a href="#">MDP (psf)</a> |
|-------------------------|---------------------------------------------------------|----------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|--------------------------------|---------------------------|
|                         |                                                         | Type                                                     | Attach        | Type                                                                                                                              | Fastener<br><a href="#">(Note 2, Note 11)</a> | Attach                                                                                            | Base Ply                             | Ply                      | Cap Ply                        |                           |
| CONVENTIONAL SYSTEMS:   |                                                         |                                                          |               |                                                                                                                                   |                                               |                                                                                                   |                                      |                          |                                |                           |
| W-41.                   | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | Min. 1-inch, one or more layers, any combination         | Prelim attach | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2                                        | 12-inch o.c. at min. 2-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows   | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA | SBS-AA, SBS-TA, SBS-CA, APP-TA | -45.0                     |
| W-42.                   | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | Min. 1-inch, one or more layers, any combination         | Prelim attach | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2                                        | 12-inch o.c. at min. 2-inch laps and 12-inch o.c. in three, equally spaced, staggered center rows | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA | SBS-AA, SBS-TA, SBS-CA, APP-TA | -60.0                     |
| W-43.                   | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | Min. 1-inch, one or more layers, any combination         | Prelim attach | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2                                        | 8-inch o.c. at min. 2-inch laps and 8-inch o.c. in three, equally spaced, staggered center rows   | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA | SBS-AA, SBS-TA, SBS-CA, APP-TA | -75.0                     |
| SELF-ADHERING BASE PLY: |                                                         |                                                          |               |                                                                                                                                   |                                               |                                                                                                   |                                      |                          |                                |                           |
| W-44.                   | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | Min. 1-inch, one or more layers, any combination         | Loose laid    | Liberty SBS Self-Adhering Base/Ply Sheet                                                                                          | Note 2                                        | 8-inch o.c. at min. 3-inch laps and 8-inch o.c. at two, equally spaced, staggered center rows     | SBS-SA                               | None                     | SBS-SA                         | -97.5                     |

**TABLE 1G: WOOD DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY FASTENED BASE SHEET, BONDED ROOF COVER**

| System No.            | Deck <a href="#">(Note 1)</a>                           | Base Sheet                                                                                                                                                 |                                                                       |                                                                                                | Roof Cover <a href="#">(Note 15)</a> |                                | MDP <a href="#">(psf)</a> |
|-----------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------|---------------------------|
|                       |                                                         | Type                                                                                                                                                       | Fastener <a href="#">(Note 11)</a>                                    | Attachment                                                                                     | Base Ply                             | Cap Ply                        |                           |
| CONVENTIONAL SYSTEMS: |                                                         |                                                                                                                                                            |                                                                       |                                                                                                |                                      |                                |                           |
| W-45.                 | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows  | (Optional) BP-AA, SBS-AA             | SBS-AA                         | -45.0                     |
| W-46.                 | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails | 9-inch o.c. at min. 4-inch laps and 9-inch o.c. at two, equally spaced, staggered center rows  | (Optional) BP-AA, SBS-AA             | SBS-AA                         | -45.0                     |
| W-47.                 | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 9-inch o.c. at min. 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows | BP-AA, SBS-AA                        | SBS-AA, SBS-TA, SBS-CA, APP-TA | -45.0                     |

**TABLE 1G: WOOD DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY FASTEDED BASE SHEET, BONDED ROOF COVER**

| System No.                     | Deck <a href="#">(Note 1)</a>                           | Base Sheet                                                                                                                                                 |                                                                       |                                                                                                                                                                                                                          | Roof Cover <a href="#">(Note 15)</a>     |                                                                                              | MDP <a href="#">(psf)</a> |
|--------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------|
|                                |                                                         | Type                                                                                                                                                       | Fastener <a href="#">(Note 11)</a>                                    | Attachment                                                                                                                                                                                                               | Base Ply                                 | Cap Ply                                                                                      |                           |
| W-48.                          | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGlas #80 Ultima Base Sheet, GAFGlas Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 6-inch o.c. at min. 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows                                                                                                                            | (Optional) BP-AA, SBS-AA                 | SBS-AA                                                                                       | -52.5                     |
| W-49.                          | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGlas #80 Ultima Base Sheet, GAFGlas Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows                                                                                                                            | BP-AA, SBS-AA                            | SBS-AA, SBS-TA, SBS-CA, APP-TA                                                               | -52.5                     |
| W-50.                          | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #80 Ultima Base Sheet, GAFGlas Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows                                                                                                                            | (Optional) APP-TA                        | APP-TA                                                                                       | -60.0                     |
| W-51.                          | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #80 Ultima Base Sheet, GAFGlas Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails | 8-inch o.c. at min. 4-inch laps and 8-inch o.c. at three, equally spaced, staggered center rows                                                                                                                          | (Optional) BP-AA, SBS-AA                 | SBS-AA                                                                                       | -75.0                     |
| W-52.                          | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #80 Ultima Base Sheet, GAFGlas Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 7-inch o.c. at min. 4-inch laps and 7-inch o.c. in three, equally spaced, staggered center rows                                                                                                                          | BP-AA, SBS-AA                            | SBS-AA, SBS-TA, SBS-CA, APP-TA                                                               | -82.5                     |
| W-53.                          | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGlas #80 Ultima Base Sheet, GAFGlas Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 4-inch o.c. at min. 2-inch laps and 4-inch o.c. in four (4), equally spaced, staggered center rows                                                                                                                       | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA                                                                       | -97.5                     |
| W-54.                          | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGlas #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGlas #80 Ultima Base Sheet, GAFGlas Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 3-inch o.c. at min. 3-inch laps and 3-inch o.c. at five (5), equally spaced, staggered center rows. <i>Base sheet and tin-caps shall be primed with Matrix 307 Premium Asphalt Primer prior to base ply installation</i> | (Optional) SBS-TA                        | Ruberoid HW Plus Granule, Ruberoid HW Plus Granule FR, Ruberoid EnergyCap HW Plus Granule FR | -120.0                    |
| <b>SELF-ADHERING BASE PLY:</b> |                                                         |                                                                                                                                                            |                                                                       |                                                                                                                                                                                                                          |                                          |                                                                                              |                           |
| W-55.                          | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | Liberty SBS Self-Adhering Base/Ply Sheet                                                                                                                   | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows                                                                                                                            | (Optional) SBS-SA                        | SBS-SA, SBS-TA or APP-TA                                                                     | -37.5                     |
| W-56.                          | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | Liberty SBS Self-Adhering Base/Ply Sheet                                                                                                                   | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 8-inch o.c. at min. 3-inch laps and 8-inch o.c. in three, equally spaced, staggered center rows                                                                                                                          | (Optional) SBS-SA                        | SBS-SA, SBS-TA or APP-TA                                                                     | -45.0                     |

**TABLE 1H: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY FASTENED BASE SHEET, BONDED ROOF COVER**

| System No.              | Deck <a href="#">(Note 1)</a>                           | Base Sheet                                                                                                                                        |                                                                                                                 |                                                                                              | Roof Cover <a href="#">(Note 15)</a> |                                                                    | <a href="#">MDP (psf)</a> |
|-------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------|---------------------------|
|                         |                                                         | Type                                                                                                                                              | Fastener <a href="#">(Note 2, Note 11)</a>                                                                      | Attachment                                                                                   | Base Ply                             | Cap Ply                                                            |                           |
| CONVENTIONAL SYSTEMS:   |                                                         |                                                                                                                                                   |                                                                                                                 |                                                                                              |                                      |                                                                    |                           |
| W-57.                   | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2                                                                                                          | 12-inch o.c. at 2-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows   | BP-AA, SBS-AA                        | SBS-AA, SBS-TA, SBS-CA, APP-TA                                     | -45.0                     |
| W-58.                   | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2 (#14 ONLY)                                                                                               | 16-inch o.c. at 4-inch laps and 16-inch o.c. in two, equally spaced, staggered center rows   | (Optional) BP-AA, SBS-AA             | SBS-AA                                                             | -52.5                     |
| W-59.                   | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2 (#14 ONLY)                                                                                               | 12-inch o.c. at 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows   | (Optional) BP-AA, SBS-AA             | SBS-AA                                                             | -60.0                     |
| W-60.                   | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2                                                                                                          | 12-inch o.c. at 2-inch laps and 12-inch o.c. in three, equally spaced, staggered center rows | BP-AA, SBS-AA                        | SBS-AA, SBS-TA, SBS-CA, APP-TA                                     | -60.0                     |
| W-61.                   | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5                                                   | Note 2                                                                                                          | 9-inch o.c. at 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows     | (Optional) SBS-TA                    | SBS-TA (polyester only)                                            | -60.0                     |
| W-62.                   | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2 (#14 ONLY)                                                                                               | 8-inch o.c. at 4-inch laps and 8-inch o.c. in three, equally spaced, staggered center rows   | (Optional) BP-AA, SBS-AA             | SBS-AA                                                             | -97.5                     |
| W-63.                   | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Note 2                                                                                                          | 8-inch o.c. at 2-inch laps and 8-inch o.c. in three, equally spaced, staggered center rows   | BP-AA, SBS-AA                        | SBS-AA, SBS-TA, SBS-CA, APP-TA                                     | -105.0                    |
| SELF-ADHERING BASE PLY: |                                                         |                                                                                                                                                   |                                                                                                                 |                                                                                              |                                      |                                                                    |                           |
| W-64.                   | Min. 19/32-inch plywood or 1-inch wood plank; 2 ft span | StormSafe Anchor Sheet                                                                                                                            | Note 2 (Drill-Tec AccuTrac Flat Plate, Drill-Tec 3" Flat Steel Plate or Drill-Tec 3" Recessed Steel Plate only) | 9-inch o.c. at 4-inch laps and 9-inch o.c. in three, equally spaced, staggered center rows   | (Optional) SBS-SA                    | SBS-SA<br><i>Note: Seams sealed with TOPCOAT SB900 or Flexseal</i> | -60.0                     |
| W-65.                   | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span | Liberty SBS Self-Adhering Base/Ply Sheet                                                                                                          | Note 2 (HD Fastener only)                                                                                       | 8-inch o.c. at 3-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows     | (Optional) SBS-SA                    | SBS-SA, SBS-TA or APP-TA                                           | -60.0                     |

**TABLE 1i: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

| System No. | Deck <a href="#">(Note 1)</a>                                                          | Primer                                                    | Roof Cover <a href="#">(Note 15)</a> |                   |         | MDP <a href="#">(psf)</a> |
|------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------|-------------------|---------|---------------------------|
|            |                                                                                        |                                                           | Base Ply                             | Ply               | Cap Ply |                           |
| W-66.      | Min. 7/16-inch APA rated OSB; 2 ft span, 8d ring shank nails, 6" o.c.                  | LIBERTY AsphaltPrimer Adhesion Promoter at 0.5 gal/square | None                                 | None              | SBS-SA  | -67.5                     |
| W-67.      | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span, 8d ring shank nails, 6" o.c.  | LIBERTY AsphaltPrimer Adhesion Promoter at 1.0 gal/square | None                                 | None              | SBS-SA  | -75.0                     |
| W-68.      | Min. 15/32-inch APA rated plywood; 2 ft span, 8d ring shank nails, 6" o.c.             | LIBERTY AsphaltPrimer Adhesion Promoter at 0.5 gal/square | SBS-SA                               | (Optional) SBS-SA | SBS-SA  | -82.5                     |
| W-69.      | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span, #8 x 2½" deck screws, 6" o.c. | LIBERTY AsphaltPrimer Adhesion Promoter at 1.0 gal/square | None                                 | None              | SBS-SA  | -90.0                     |
| W-70.      | Min. 15/32-inch plywood or 1-inch wood plank; 2 ft span, 8d ring shank nails, 6" o.c.  | LIBERTY AsphaltPrimer Adhesion Promoter at 1.0 gal/square | SBS-SA                               | (Optional) SBS-SA | SBS-SA  | -90.0                     |

**TABLE 2A: STEEL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

| System No.              | Deck<br>( <a href="#">Note 1</a> )  | Base Insulation Layer                        |                                           | Top Insulation Layer                                                                                                                                                                |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                                        |                          | MDP<br>( <a href="#">psf</a> ) |
|-------------------------|-------------------------------------|----------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------------------------|--------------------------|--------------------------------|
|                         |                                     | Type                                         | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                                                                                                | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                                    | Cap Ply                  |                                |
| CONVENTIONAL SYSTEMS:   |                                     |                                              |                                           |                                                                                                                                                                                     |                                           |                                        |                                                        |                          |                                |
| SC-1                    | Min. 22 ga., type B, Grade 40 steel | Min. 1.5-inch EnergyGuard Polyiso Insulation | LRF-M or OB500, 6-inch o.c.               | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | LRF-M or OB500                            | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -60.0                          |
| SELF-ADHERING BASE PLY: |                                     |                                              |                                           |                                                                                                                                                                                     |                                           |                                        |                                                        |                          |                                |
| SC-2                    | Min. 22 ga., type B, Grade 40 steel | Min. 1.5-inch EnergyGuard Polyiso Insulation | LRF-M or OB500, 6-inch o.c.               | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | LRF-M or OB500                            | SBS-SA                                 | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -60.0                          |

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No.            | Deck<br><a href="#">(Note 1)</a>                                          | Base Insulation Layer                                           |                                             |                                     | Top Insulation Layer                                                                                                                                                                                                  |                                         | Roof Cover <a href="#">(Note 15)</a> |                                      |         | <a href="#">MDP (psf)</a> |
|-----------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|---------|---------------------------|
|                       |                                                                           | Type                                                            | Fasten<br><a href="#">(Note 2, Note 11)</a> | Attach<br><a href="#">(Note 17)</a> | Type                                                                                                                                                                                                                  | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                                  | Cap Ply |                           |
| CONVENTIONAL SYSTEMS: |                                                                           |                                                                 |                                             |                                     |                                                                                                                                                                                                                       |                                         |                                      |                                      |         |                           |
| SC-3                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | Note 2                                      | 1 per 4.0 ft2                       | Optional additional layers, min. 1.5-inch base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | Hot asphalt                             | BP-AA, SBS-AA                        | (Optional) One or more BP-AA, SBS-AA | SBS-AA  | -37.5*                    |
| SC-4                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 0.625-inch DensDeck Prime                                  | Note 2                                      | 1 per 4.0 ft2                       | Min. 1.5-inch EnergyGuard followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                                               | Hot asphalt                             | APP-TA                               | (Optional) APP-TA                    | APP-TA  | -45.0*                    |
| SC-5                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 0.5-inch DensDeck Prime                                    | Note 2                                      | 1 per 2.7 ft2                       | Min. 1.5-inch EnergyGuard followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                                               | Hot asphalt                             | APP-TA                               | (Optional) APP-TA                    | APP-TA  | -45.0*                    |
| SC-6                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | Note 2                                      | 1 per 2.7 ft2                       | Optional additional layers, min. 1.5-inch base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | Hot asphalt                             | BP-AA, SBS-AA                        | (Optional) One or more BP-AA, SBS-AA | SBS-AA  | -45.0*                    |
| SC-7                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                    | Note 2                                      | 1 per 2.0 ft2                       | Optional additional layers, min. 1.5-inch base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | Hot asphalt                             | BP-AA, SBS-AA                        | (Optional) One or more BP-AA, SBS-AA | SBS-AA  | -45.0*                    |

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                                                         | Base Insulation Layer                                                                              |                                                                   |                                       | Top Insulation Layer                                                                                                                                                                                                  |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                      |                  | MDP<br>(psf) |
|------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------|------------------|--------------|
|            |                                                                                                            | Type                                                                                               | Fasten<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Type                                                                                                                                                                                                                  | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                  | Cap Ply          |              |
| SC-8       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                  | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH      | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layers, min. 1.5-inch base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | Hot asphalt                               | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -45.0*       |
| SC-9       | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete                                  | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                                  | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                 | Hot asphalt                               | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA             | SBS-AA           | -60.0*       |
| SC-10      | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete                                  | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                                  | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                                       | Hot asphalt                               | SBS-TA or APP-TA                       | (Optional) SBS-TA or APP-TA          | SBS-TA or APP-TA | -60.0*       |
| SC-11      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                  | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard RH | Note 2                                                            | 1 per 1.3 ft <sup>2</sup>             | Optional additional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                          | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA     | SBS-AA, SBS-TA   | -60.0        |
| SC-12      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                  | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH      | Note 2                                                            | 1 per 1.45 ft <sup>2</sup>            | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                                                                                                      | Hot asphalt                               | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA             | SBS-AA or SBS-TA | -67.5        |
| SC-13      | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete                                  | Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                                    | Note 2                                                            | 1 per 1.6 ft <sup>2</sup>             | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                                       | Hot Asphalt                               | SBS-AA or SBS-TA                       | (Optional) SBS-AA or SBS-TA          | SBS-AA or SBS-TA | -75.0        |
| SC-14      | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete                                  | Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                                    | Note 2                                                            | 1 per 1.45 ft <sup>2</sup>            | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                                       | Hot Asphalt                               | SBS-AA or SBS-TA                       | (Optional) SBS-AA or SBS-TA          | SBS-AA or SBS-TA | -82.5        |
| SC-15      | Min. 22 ga., Type B, Grade 40 or min. 20 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                                    | Note 2                                                            | 1 per 1.45 ft <sup>2</sup>            | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                                       | Hot Asphalt                               | SBS-AA or SBS-TA                       | (Optional) SBS-AA or SBS-TA          | SBS-AA or SBS-TA | -90.0        |

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                                                         | Base Insulation Layer                                                                           |                                                                   |                                       | Top Insulation Layer                                                                                                                                                                                  |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                                        |                          | MDP<br>(psf) |
|------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------------------------|--------------------------|--------------|
|            |                                                                                                            | Type                                                                                            | Fasten<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Type                                                                                                                                                                                                  | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                                    | Cap Ply                  |              |
| SC-16      | Min. 22 ga., Type B, Grade 40 or min. 20 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                                 | Note 2                                                            | 1 per 1.0 ft <sup>2</sup>             | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                       | Hot Asphalt                               | SBS-AA or SBS-TA                       | (Optional) SBS-AA or SBS-TA                            | SBS-AA or SBS-TA         | -97.5        |
| SC-17      | Min. 22 ga., Type B, Grade 80 steel or min. 2,500 psi structural concrete                                  | Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                                 | Note 2                                                            | 1 per 1.0 ft <sup>2</sup>             | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                       | Hot Asphalt                               | SBS-AA or SBS-TA                       | (Optional) SBS-AA or SBS-TA                            | SBS-AA or SBS-TA         | -105.0       |
| SC-18      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                  | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                              | Hot asphalt or OB500                      | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -45.0*       |
| SC-19      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                  | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH   | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                              | Hot asphalt or OB500                      | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -45.0*       |
| SC-20      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                  | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                         | Hot asphalt or OB500                      | BP-AA, SBS-AA                          | None                                                   | SBS-CA                   | -45.0*       |
| SC-21      | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete                                  | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                               | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                     | SBS-TA or APP-TA                       | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -52.5        |
| SC-22      | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete                                  | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                               | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA                             | SBS-AA                   | -52.5        |
| SC-23      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                  | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH   | Note 2                                                            | 1 per 1.6 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | Hot asphalt or OB500                      | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -60.0        |

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No.                     | Deck<br>(Note 1)                                                          | Base Insulation Layer                                                                           |                                |                           | Top Insulation Layer                                                                                                                                                                                         |                         | Roof Cover (Note 15)            |                                                        |                          | MDP<br>(psf) |
|--------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|--------------------------|--------------|
|                                |                                                                           | Type                                                                                            | Fasten<br>(Note 2,<br>Note 11) | Attach<br>(Note 17)       | Type                                                                                                                                                                                                         | Attach<br>(Notes 6,7,8) | Base Ply                        | Ply                                                    | Cap Ply                  |              |
| SC-24                          | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                         | 1 per 2.0 ft <sup>2</sup> | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | LRF-XF                  | BP-AA, SBS-AA, SBS-TA or APP-TA | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -45.0*       |
| SC-25                          | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH   | Note 2                         | 1 per 4.0 ft <sup>2</sup> | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | LRF-XF                  | BP-AA, SBS-AA, SBS-TA or APP-TA | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -45.0*       |
| SC-26                          | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                               | Note 2                         | 1 per 1.8 ft <sup>2</sup> | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board        | LRF-XF                  | SBS-TA or APP-TA                | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -52.5        |
| SC-27                          | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                               | Note 2                         | 1 per 1.8 ft <sup>2</sup> | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board        | LRF-XF                  | BP-AA or SBS-AA                 | (Optional) BP-AA or SBS-AA                             | SBS-AA                   | -52.5        |
| SC-28                          | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH   | Note 2                         | 1 per 1.6 ft <sup>2</sup> | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                          | LRF-XF                  | BP-AA, SBS-AA, SBS-TA or APP-TA | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -60.0        |
| <b>SELF-ADHERING BASE PLY:</b> |                                                                           |                                                                                                 |                                |                           |                                                                                                                                                                                                              |                         |                                 |                                                        |                          |              |
| SC-29                          | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-EnergyGuard RH, EnergyGuard Polyiso Insulation, EnergyGuard Ultra                      | Note 2                         | 1 per 2.0 ft <sup>2</sup> | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | OB500, LRF-M, M-OSFA    | SBS-SA                          | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -37.5*       |
| SC-30                          | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-EnergyGuard RH, EnergyGuard Polyiso Insulation, EnergyGuard Ultra                        | Note 2                         | 1 per 2.9 ft <sup>2</sup> | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | OB500, LRF-M, M-OSFA    | SBS-SA                          | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -37.5*       |
| SC-31                          | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                    | Note 2                         | 1 per 2.0 ft <sup>2</sup> | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board                                                                  | OB500                   | SBS-SA                          | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -37.5*       |

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer                                                                           |                                                                   |                                       | Top Insulation Layer                                                                                                                           |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                           |                | MDP<br>( <a href="#">psf</a> ) |
|------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|---------------------------|----------------|--------------------------------|
|            |                                                                           | Type                                                                                            | Fasten<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Type                                                                                                                                           | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                       | Cap Ply        |                                |
| SC-32      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard RA, EnergyGuard RH                                                      | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board    | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -37.5*                         |
| SC-33      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard RA, EnergyGuard RH                                                      | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board    | OB500                                     | SBS-SA                                 | (Optional) SBS-SA         | SBS-SA         | -37.5*                         |
| SC-34      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                 | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 0.5-inch thick base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board    | OB500, LRF-M, M-OSFA                      | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -37.5*                         |
| SC-35      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | Note 2                                                            | 1 per 2.9 ft <sup>2</sup>             | Optional additional layer(s) min. 0.5-inch thick base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board    | OB500, LRF-M, M-OSFA                      | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -37.5*                         |
| SC-36      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 0.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500, LRF-M, M-OSFA                      | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -37.5*                         |
| SC-37      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                 | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Additional layer(s), min. 0.5-inch thick base insulation                                                                                       | OB500, LRF-M, M-OSFA                      | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*                         |
| SC-38      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | Note 2                                                            | 1 per 2.9 ft <sup>2</sup>             | Additional layer(s), min. 0.5-inch thick base insulation                                                                                       | OB500, LRF-M, M-OSFA                      | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*                         |
| SC-39      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Additional layer(s), min. 1.5-inch thick base insulation                                                                                       | OB500, LRF-M, M-OSFA                      | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*                         |
| SC-40      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*                         |

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer                                                                         |                                                                   |                                       | Top Insulation Layer                                                                                                                                                                                                          |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                           |                | MDP<br>(psf) |
|------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|---------------------------|----------------|--------------|
|            |                                                                           | Type                                                                                          | Fasten<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Type                                                                                                                                                                                                                          | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                       | Cap Ply        |              |
| SC-41      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                               | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 0.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                | OB500, LRF-M, M-OSFA                      | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-42      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                 | Note 2                                                            | 1 per 2.9 ft <sup>2</sup>             | Optional additional layer(s) min. 0.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                | OB500, LRF-M, M-OSFA                      | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-43      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard RA, EnergyGuard RH                                                    | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                  | OB500                                     | SBS-SA                                 | (Optional) SBS-SA         | SBS-SA         | -45.0*       |
| SC-44      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard RA, EnergyGuard RH                                                    | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-45      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                 | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 0.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                | OB500, LRF-M, M-OSFA                      | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-46      | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                             | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                         | OB500                                     | SBS-SA                                 | (Optional) SBS-TA         | SBS-TA         | -52.5        |
| SC-47      | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                             | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.5-inch EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | OB500                                     | SBS-SA                                 | (Optional) SBS-TA         | SBS-TA         | -60.0        |
| SC-48      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                                                            | 1 per 1.6 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                           | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -60.0        |

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer                                                                           |                                                                   |                                       | Top Insulation Layer                                                                                                                                                                |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                           |                | MDP<br>(psf) |
|------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|---------------------------|----------------|--------------|
|            |                                                                           | Type                                                                                            | Fasten<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Type                                                                                                                                                                                | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                       | Cap Ply        |              |
| SC-49      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH   | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                        | Hot asphalt                               | SBS-SA                                 | (Optional) SBS-SA         | SBS-SA         | -45.0*       |
| SC-50      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                      | Hot asphalt                               | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-51      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH   | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                      | Hot asphalt                               | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-52      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH   | Note 2                                                            | 1 per 1.6 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                               | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -60.0        |
| SC-53      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                 | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Additional layer(s), min. 0.5-inch thick base insulation                                                                                                                            | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-54      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | Note 2                                                            | 1 per 2.9 ft <sup>2</sup>             | Additional layer(s), min. 0.5-inch thick base insulation                                                                                                                            | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-55      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Additional layer(s), min. 1.5-inch thick base insulation                                                                                                                            | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-56      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                    | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                      | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No.                   | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer                                                                         |                                                                   |                                       | Top Insulation Layer                                                                                                                                                                                  |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                      |                | MDP<br>( <a href="#">psf</a> ) |
|------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------|----------------|--------------------------------|
|                              |                                                                           | Type                                                                                          | Fasten<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Type                                                                                                                                                                                                  | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                  | Cap Ply        |                                |
| SC-57                        | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                               | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 0.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                        | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA | -45.0*                         |
| SC-58                        | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                 | Note 2                                                            | 1 per 2.9 ft <sup>2</sup>             | Optional additional layer(s) min. 0.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                        | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA | -45.0*                         |
| SC-59                        | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard RA, EnergyGuard RH                                                    | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                          | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-SA                    | SBS-SA         | -45.0*                         |
| SC-60                        | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard RA, EnergyGuard RH                                                    | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                        | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA | -45.0*                         |
| SC-61                        | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                 | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 0.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                        | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA | -45.0*                         |
| SC-62                        | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                             | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA                    | SBS-TA         | -52.5                          |
| SC-63                        | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                                                            | 1 per 1.6 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA | -60.0                          |
| <b>VENTING SYSTEMS:</b>      |                                                                           |                                                                                               |                                                                   |                                       |                                                                                                                                                                                                       |                                           |                                        |                                      |                |                                |
| SC-64                        | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                               | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Additional layer(s) of base insulation                                                                                                                                                                | Hot asphalt                               | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA         | -45.0*                         |
| <b>COLD-APPLIED SYSTEMS:</b> |                                                                           |                                                                                               |                                                                   |                                       |                                                                                                                                                                                                       |                                           |                                        |                                      |                |                                |

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer                                                                           |                                                                   |                                       | Top Insulation Layer                                                                                                                                                                                         |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                    |                   | MDP<br>(psf) |
|------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------|-------------------|--------------|
|            |                                                                           | Type                                                                                            | Fasten<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Type                                                                                                                                                                                                         | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                | Cap Ply           |              |
| SC-65      | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH                 | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | OB500, LRF-M, M-OSFA                      | SBS-CA or SBS-CA1                      | (Optional) SBS-CA1 | SBS-CA or SBS-CA1 | -37.5*       |
| SC-66      | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH                   | Note 2                                                            | 1 per 2.9 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | OB500, LRF-M, M-OSFA                      | SBS-CA or SBS-CA1                      | (Optional) SBS-CA1 | SBS-CA or SBS-CA1 | -37.5*       |
| SC-67      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | OB500                                     | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -45.0*       |
| SC-68      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH   | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | OB500                                     | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -45.0*       |
| SC-69      | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                               | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board        | OB500                                     | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -52.5        |
| SC-70      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | LRF-XF                                    | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -45.0*       |
| SC-71      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH   | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | LRF-XF                                    | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -45.0*       |
| SC-72      | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                               | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board        | LRF-XF                                    | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -52.5        |

**HYBRID HOT/COLD-APPLIED SYSTEMS:**

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer                                                                           |                                                                   |                                       | Top Insulation Layer                                                                                                                                                                         |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                            |         | MDP<br>(psf) |
|------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|----------------------------|---------|--------------|
|            |                                                                           | Type                                                                                            | Fasten<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Type                                                                                                                                                                                         | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                        | Cap Ply |              |
| SC-73      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard RH                                                                    | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -45.0*       |
| SC-74      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                    | Note 2                                                            | 1 per 2.7 ft <sup>2</sup>             | Optional additional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                      | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -45.0*       |
| SC-75      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                    | Note 2                                                            | 1 per 3.2 ft <sup>2</sup>             | Optional additional layers base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                     | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -45.0*       |
| SC-76      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                    | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -45.0*       |
| SC-77      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard RH                                                                      | Note 2                                                            | 1 per 3.2 ft <sup>2</sup>             | Optional additional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -45.0*       |
| SC-78      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard RA, EnergyGuard RH                                                      | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                                                  | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -45.0*       |
| SC-79      | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                               | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                        | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -60.0*       |
| SC-80      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH                                    | Note 2                                                            | 1 per 1.3 ft <sup>2</sup>             | Optional additional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -60.0        |
| SC-81      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 0.5-inch thick base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                               | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -45.0*       |

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer                                                                           |                                                                   |                                       | Top Insulation Layer                                                                                                                                                                                  |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                            |         | MDP<br>(psf) |
|------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|----------------------------|---------|--------------|
|            |                                                                           | Type                                                                                            | Fasten<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Type                                                                                                                                                                                                  | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                        | Cap Ply |              |
| SC-82      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH   | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 0.5-inch thick base insulation followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                        | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -45.0*       |
| SC-83      | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                               | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -52.5        |
| SC-84      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                                                            | 1 per 2.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                        | LRF-XF                                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -45.0*       |
| SC-85      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH   | Note 2                                                            | 1 per 4.0 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick base insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                        | LRF-XF                                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -45.0*       |
| SC-86      | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                               | Note 2                                                            | 1 per 1.8 ft <sup>2</sup>             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF                                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -52.5        |

**TABLE 2c: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No.              | Deck<br>( <a href="#">Note 1</a> )  | Thermal Barrier                                             |                                                                                |                                       | Vapor Barrier<br>( <a href="#">Note 15</a> )                                                                                                    | Insulation Layer(s)                                                                                                                                                                                                                       |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                             |                  | MDP<br>( <a href="#">psf</a> ) |
|-------------------------|-------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------|------------------|--------------------------------|
|                         |                                     | Type                                                        | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> )               | Attach<br>( <a href="#">Note 17</a> ) |                                                                                                                                                 | Type                                                                                                                                                                                                                                      | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base                                   | Ply                         | Cap              |                                |
| CONVENTIONAL SYSTEMS:   |                                     |                                                             |                                                                                |                                       |                                                                                                                                                 |                                                                                                                                                                                                                                           |                                           |                                        |                             |                  |                                |
| SC-87                   | Min. 22 ga., Type B, Grade 33 steel | 0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | Note 2<br>( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) | 1 per 4.0 ft²                         | Unprimed substrate followed by GAF SA Vapor Retarder XL or GAF SA Primer or Matrix 307 Premium Asphalt Primer followed by GAF SA Vapor Retarder | One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-M, LRF-XF or OB500                    | SBS-TA or APP-TA                       | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -45.0*                         |
| SC-88                   | Min. 22 ga., Type B, Grade 33 steel | 0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | Note 2<br>( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) | 1 per 4.0 ft²                         | Unprimed substrate followed by GAF SA Vapor Retarder XL or GAF SA Primer or Matrix 307 Premium Asphalt Primer followed by GAF SA Vapor Retarder | One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-M, LRF-XF or OB500                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA  | SBS-AA           | -45.0*                         |
| SC-89                   | Min. 22 ga., Type B, Grade 33 steel | 0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | Note 2<br>( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) | 1 per 2.0 ft²                         | Unprimed substrate followed by GAF SA Vapor Retarder XL or GAF SA Primer followed by GAF SA Vapor Retarder                                      | One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-M, LRF-XF or OB500                    | SBS-TA or APP-TA                       | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -67.5                          |
| SC-90                   | Min. 22 ga., Type B, Grade 33 steel | 0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | Note 2<br>( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) | 1 per 2.0 ft²                         | Unprimed substrate followed by GAF SA Vapor Retarder XL or GAF SA Primer followed by GAF SA Vapor Retarder                                      | One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-M, LRF-XF or OB500                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA  | SBS-AA           | -67.5                          |
| SELF-ADHERING BASE PLY: |                                     |                                                             |                                                                                |                                       |                                                                                                                                                 |                                                                                                                                                                                                                                           |                                           |                                        |                             |                  |                                |
| SC-91                   | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board              | Note 2<br>( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) | 1 per 2.7 ft²                         | VB-SBS-SA                                                                                                                                       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH followed by min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board                                                                                                                   | OB500                                     | SBS-SA                                 | None                        | SBS-SA           | -37.5*                         |
| SC-92                   | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board              | Note 2<br>( <i>Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used</i> ) | 1 per 2.7 ft²                         | VB-SBS-SA                                                                                                                                       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH followed by min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board                                                                                                                   | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -37.5*                         |

**TABLE 2c: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )  | Thermal Barrier                                             |                                                                       |                                       | Vapor Barrier<br>( <a href="#">Note 15</a> )                                                                                                    | Insulation Layer(s)                                                                                                                                                                                                                                                                                                                                 |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                           |                | MDP<br>(psf) |
|------------|-------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|---------------------------|----------------|--------------|
|            |                                     | Type                                                        | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> )      | Attach<br>( <a href="#">Note 17</a> ) |                                                                                                                                                 | Type                                                                                                                                                                                                                                                                                                                                                | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base                                   | Ply                       | Cap            |              |
| SC-93      | Min. 22 ga., Type B, Grade 33 steel | 0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | Note 2<br>(Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) | 1 per 4.0 ft <sup>2</sup>             | Unprimed substrate followed by GAF SA Vapor Retarder XL or GAF SA Primer or Matrix 307 Premium Asphalt Primer followed by GAF SA Vapor Retarder | One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board                                                                                                              | LRF-M or OB500                            | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -37.5*       |
| SC-94      | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board              | Note 2<br>(Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) | 1 per 2.7 ft <sup>2</sup>             | VB-SBS-SA                                                                                                                                       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                                                                                                                                                                                                                                                        | OB500                                     | SBS-SA                                 | None                      | SBS-SA         | -45.0*       |
| SC-95      | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board              | Note 2<br>(Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) | 1 per 2.7 ft <sup>2</sup>             | VB-SBS-SA                                                                                                                                       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                                                                                                                                                                                                                                                        | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-96      | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board              | Note 2<br>(Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) | 1 per 2.7 ft <sup>2</sup>             | VB-SBS-SA                                                                                                                                       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                                                                                                            | OB500                                     | SBS-SA                                 | None                      | SBS-SA         | -45.0*       |
| SC-97      | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board              | Note 2<br>(Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) | 1 per 2.7 ft <sup>2</sup>             | VB-SBS-SA                                                                                                                                       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                                                                                          | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-98      | Min. 22 ga., Type B, Grade 33 steel | Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board              | Note 2<br>(Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) | 1 per 2.7 ft <sup>2</sup>             | VB-SBS-SA                                                                                                                                       | Min. 1.5-inch EnergyGuard RH followed by Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board                                                                                                                                                                            | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |
| SC-99      | Min. 22 ga., Type B, Grade 33 steel | 0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | Note 2<br>(Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used) | 1 per 4.0 ft <sup>2</sup>             | Unprimed substrate followed by GAF SA Vapor Retarder XL or GAF SA Primer or Matrix 307 Premium Asphalt Primer followed by GAF SA Vapor Retarder | One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Cover Board or EnergyGuard HD Plus Polyiso Cover Board | LRF-M, LRF-XF or OB500                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*       |

**TABLE 2c: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No.                   | Deck<br>( <a href="#">Note 1</a> )           | Thermal Barrier                                                         |                                                                                            |                                       | Vapor Barrier<br>( <a href="#">Note 15</a> )                                                                                                                   | Insulation Layer(s)                                                                                                                                                                                                                                                                                                                                                       |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                                    |                          | MDP<br>(psf) |
|------------------------------|----------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|----------------------------------------------------|--------------------------|--------------|
|                              |                                              | Type                                                                    | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> )                           | Attach<br>( <a href="#">Note 17</a> ) |                                                                                                                                                                | Type                                                                                                                                                                                                                                                                                                                                                                      | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base                                   | Ply                                                | Cap                      |              |
| SC-100                       | Min. 22 ga.,<br>Type B,<br>Grade 33<br>steel | 0.5-inch<br>DensDeck Prime<br>or SECUROCK<br>Gypsum Fiber<br>Roof Board | Note 2<br>( <i>Drill-Tec 3 in.<br/>Ribbed Galvalume<br/>Plate (Flat) may<br/>be used</i> ) | 1 per<br>2.0 ft <sup>2</sup>          | Unprimed substrate followed<br>by GAF SA Vapor Retarder XL<br>or GAF SA Primer followed by<br>GAF SA Vapor Retarder                                            | One or more layers, base layer min. 1-inch<br>thick, optional subsequent layer(s) min. 1.5-<br>inch thick EnergyGuard Polyiso Insulation,<br>EnergyGuard Ultra Polyiso Insulation<br>(Optional) Min. 0.25-inch DensDeck Prime or<br>SECUROCK Gypsum-Fiber Roof Board or min.<br>0.5-inch EnergyGuard HD Polyiso Cover Board<br>or EnergyGuard HD Plus Polyiso Cover Board | LRF-M, LRF-<br>XF or OB500                | SBS-SA                                 | (Optional)<br>SBS-TA,<br>APP-TA                    | SBS-TA,<br>APP-TA        | -67.5        |
| <b>VENTING SYSTEMS:</b>      |                                              |                                                                         |                                                                                            |                                       |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                           |                                           |                                        |                                                    |                          |              |
| SC-101                       | Min. 22 ga.,<br>Type B,<br>Grade 33<br>steel | 0.5-inch<br>DensDeck Prime<br>or SECUROCK<br>Gypsum Fiber<br>Roof Board | Note 2<br>( <i>Drill-Tec 3 in.<br/>Ribbed Galvalume<br/>Plate (Flat) may<br/>be used</i> ) | 1 per<br>4.0 ft <sup>2</sup>          | Unprimed substrate followed<br>by GAF SA Vapor Retarder XL<br>or GAF SA Primer or Matrix<br>307 Premium Asphalt Primer<br>followed by GAF SA Vapor<br>Retarder | One or more layers, base layer min. 1-inch<br>thick, optional subsequent layer(s) min. 1.5-<br>inch thick EnergyGuard Polyiso Insulation,<br>EnergyGuard Ultra Polyiso Insulation<br>(Optional) Min. 0.25-inch DensDeck Prime or<br>SECUROCK Gypsum-Fiber Roof Board                                                                                                      | LRF-M, LRF-<br>XF or OB500                | BP-LL                                  | (Optional)<br>One or<br>more BP-<br>AA, SBS-<br>AA | SBS-AA                   | -45.0*       |
| SC-102                       | Min. 22 ga.,<br>Type B,<br>Grade 33<br>steel | 0.5-inch<br>DensDeck Prime<br>or SECUROCK<br>Gypsum Fiber<br>Roof Board | Note 2<br>( <i>Drill-Tec 3 in.<br/>Ribbed Galvalume<br/>Plate (Flat) may<br/>be used</i> ) | 1 per<br>2.0 ft <sup>2</sup>          | Unprimed substrate followed<br>by GAF SA Vapor Retarder XL<br>or GAF SA Primer followed by<br>GAF SA Vapor Retarder                                            | One or more layers, base layer min. 1-inch<br>thick, optional subsequent layer(s) min. 1.5-<br>inch thick EnergyGuard Polyiso Insulation,<br>EnergyGuard Ultra Polyiso Insulation<br>(Optional) Min. 0.25-inch DensDeck Prime or<br>SECUROCK Gypsum-Fiber Roof Board                                                                                                      | LRF-M, LRF-<br>XF or OB500                | BP-LL                                  | (Optional)<br>One or<br>more BP-<br>AA, SBS-<br>AA | SBS-AA                   | -67.5        |
| <b>COLD-APPLIED SYSTEMS:</b> |                                              |                                                                         |                                                                                            |                                       |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                           |                                           |                                        |                                                    |                          |              |
| SC-103                       | Min. 22 ga.,<br>Type B,<br>Grade 33<br>steel | Min.0.5-inch<br>SECUROCK<br>Gypsum Fiber<br>Roof Board                  | Note 2<br>( <i>Drill-Tec 3 in.<br/>Ribbed Galvalume<br/>Plate (Flat) may<br/>be used</i> ) | 1 per<br>2.7 ft <sup>2</sup>          | VB-SBS-SA                                                                                                                                                      | Min. 1.5-inch EnergyGuard RH followed by Min.<br>0.5-inch EnergyGuard RH HD Polyiso Insulation,<br>EnergyGuard HD Polyiso Cover Board,<br>EnergyGuard HD Plus Polyiso Cover Board                                                                                                                                                                                         | OB500                                     | SBS-CA or<br>SBS-CA1                   | (Optional)<br>SBS-CA1                              | SBS-CA<br>or SBS-<br>CA1 | -45.0*       |
| SC-104                       | Min. 22 ga.,<br>Type B,<br>Grade 33<br>steel | 0.5-inch<br>DensDeck Prime<br>or SECUROCK<br>Gypsum Fiber<br>Roof Board | Note 2<br>( <i>Drill-Tec 3 in.<br/>Ribbed Galvalume<br/>Plate (Flat) may<br/>be used</i> ) | 1 per<br>4.0 ft <sup>2</sup>          | Unprimed substrate followed<br>by GAF SA Vapor Retarder XL<br>or GAF SA Primer or Matrix<br>307 Premium Asphalt Primer<br>followed by GAF SA Vapor<br>Retarder | One or more layers, base layer min. 1-inch<br>thick, optional subsequent layer(s) min. 1.5-<br>inch thick EnergyGuard Polyiso Insulation,<br>EnergyGuard Ultra Polyiso Insulation<br>(Optional) Min. 0.25-inch DensDeck Prime or<br>SECUROCK Gypsum-Fiber Roof Board or min.<br>0.5-inch EnergyGuard HD Polyiso Cover Board<br>or EnergyGuard HD Plus Polyiso Cover Board | LRF-M, LRF-<br>XF or OB500                | SBS-CA1                                | (Optional)<br>SBS-CA1                              | SBS-CA1                  | -45.0*       |

**TABLE 2c: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED TOP INSULATION, BONDED ROOF COVER**

| System No.                              | Deck<br>( <a href="#">Note 1</a> )           | Thermal Barrier                                                         |                                                                                            |                                       | Vapor Barrier<br>( <a href="#">Note 15</a> )                                                                                                                   | Insulation Layer(s)                                                                                                                                                                                                                                                                                                                                                       |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                  |         | MDP<br>(psf) |
|-----------------------------------------|----------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|----------------------------------|---------|--------------|
|                                         |                                              | Type                                                                    | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> )                           | Attach<br>( <a href="#">Note 17</a> ) |                                                                                                                                                                | Type                                                                                                                                                                                                                                                                                                                                                                      | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base                                   | Ply                              | Cap     |              |
| SC-105                                  | Min. 22 ga.,<br>Type B,<br>Grade 33<br>steel | 0.5-inch<br>DensDeck Prime<br>or SECUROCK<br>Gypsum Fiber<br>Roof Board | Note 2<br>( <i>Drill-Tec 3 in.<br/>Ribbed Galvalume<br/>Plate (Flat) may<br/>be used</i> ) | 1 per<br>2.0 ft <sup>2</sup>          | Unprimed substrate followed<br>by GAF SA Vapor Retarder XL<br>or GAF SA Primer followed by<br>GAF SA Vapor Retarder                                            | One or more layers, base layer min. 1-inch<br>thick, optional subsequent layer(s) min. 1.5-<br>inch thick EnergyGuard Polyiso Insulation,<br>EnergyGuard Ultra Polyiso Insulation<br>(Optional) Min. 0.25-inch DensDeck Prime or<br>SECUROCK Gypsum-Fiber Roof Board or min.<br>0.5-inch EnergyGuard HD Polyiso Cover Board<br>or EnergyGuard HD Plus Polyiso Cover Board | LRF-M, LRF-<br>XF or OB500                | SBS-CA1                                | (Optional)<br>SBS-CA1            | SBS-CA1 | -67.5        |
| <b>HYBRID HOT/COLD APPLIED SYSTEMS:</b> |                                              |                                                                         |                                                                                            |                                       |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                           |                                           |                                        |                                  |         |              |
| SC-106                                  | Min. 22 ga.,<br>Type B,<br>Grade 33<br>steel | 0.5-inch<br>DensDeck Prime<br>or SECUROCK<br>Gypsum Fiber<br>Roof Board | Note 2<br>( <i>Drill-Tec 3 in.<br/>Ribbed Galvalume<br/>Plate (Flat) may<br/>be used</i> ) | 1 per<br>4.0 ft <sup>2</sup>          | Unprimed substrate followed<br>by GAF SA Vapor Retarder XL<br>or GAF SA Primer or Matrix<br>307 Premium Asphalt Primer<br>followed by GAF SA Vapor<br>Retarder | One or more layers, base layer min. 1-inch<br>thick, optional subsequent layer(s) min. 1.5-<br>inch thick EnergyGuard Polyiso Insulation,<br>EnergyGuard Ultra Polyiso Insulation<br>Min. 0.25-inch DensDeck Prime or SECUROCK<br>Gypsum-Fiber Roof Board                                                                                                                 | LRF-M, LRF-<br>XF or OB500                | BP-AA or<br>SBS-AA                     | (Optional)<br>BP-AA or<br>SBS-AA | SBS-CA1 | -45.0*       |
| SC-107                                  | Min. 22 ga.,<br>Type B,<br>Grade 33<br>steel | 0.5-inch<br>DensDeck Prime<br>or SECUROCK<br>Gypsum Fiber<br>Roof Board | Note 2<br>( <i>Drill-Tec 3 in.<br/>Ribbed Galvalume<br/>Plate (Flat) may<br/>be used</i> ) | 1 per<br>2.0 ft <sup>2</sup>          | Unprimed substrate followed<br>by GAF SA Vapor Retarder XL<br>or GAF SA Primer followed by<br>GAF SA Vapor Retarder                                            | One or more layers, base layer min. 1-inch<br>thick, optional subsequent layer(s) min. 1.5-<br>inch thick EnergyGuard Polyiso Insulation,<br>EnergyGuard Ultra Polyiso Insulation<br>Min. 0.25-inch DensDeck Prime or SECUROCK<br>Gypsum-Fiber Roof Board                                                                                                                 | LRF-M, LRF-<br>XF or OB500                | BP-AA or<br>SBS-AA                     | (Optional)<br>BP-AA or<br>SBS-AA | SBS-CA1 | -67.5        |

**TABLE 2d: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No.            | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> ) | Top Insulation Layer                                                             |                                                                                                                                                                                                                                                                                                                                                                                       |                                       | Roof Cover ( <a href="#">Note 15</a> ) |                                            |                          | MDP<br>( <a href="#">psf</a> ) |
|-----------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------|--------------------------------------------|--------------------------|--------------------------------|
|                       |                                                                           |                                                                               | Type                                                                             | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> )                                                                                                                                                                                                                                                                                                                      | Attach<br>( <a href="#">Note 17</a> ) | Base Ply                               | Ply                                        | Cap Ply                  |                                |
| CONVENTIONAL SYSTEMS: |                                                                           |                                                                               |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                       |                                       |                                        |                                            |                          |                                |
| SC-108                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                | Note 2                                                                                                                                                                                                                                                                                                                                                                                | 1 per 4.0 ft2                         | SBS-TA or APP-TA                       | (Optional) SBS-TA or APP-TA                | SBS-TA or APP-TA         | -30.0*                         |
| SC-109                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                | Note 2                                                                                                                                                                                                                                                                                                                                                                                | 1 per 3.2 ft2                         | SBS-TA or APP-TA                       | (Optional) SBS-TA or APP-TA                | SBS-TA or APP-TA         | -37.5*                         |
| SC-110                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.5-inch DensDeck Prime or min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board | Drill-Tec #12 Fastener, Drill-Tec #12 DP Fastener, Drill-Tec #14 Fastener, Drill-Tec #14 HD Fastener with Drill-Tec 3” Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat), Drill-Tec AccuTrac Flat Plate or Drill-Tec 3” Flat Steel Plate or Drill-Tec ASAP 3S, Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3” Metal Plate or Drill-Tec 3” ASAP Flat | 1 per 4.0 ft2                         | SBS-TA or APP-TA                       | (Optional) SBS-TA or APP-TA                | SBS-TA or APP-TA         | -45.0*                         |
| SC-111                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                | Note 2                                                                                                                                                                                                                                                                                                                                                                                | 1 per 2.1 ft2                         | SBS-TA or APP-TA                       | (Optional) SBS-TA or APP-TA                | SBS-TA or APP-TA         | -45.0*                         |
| SC-112                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck, DensDeck Prime                                          | Note 2                                                                                                                                                                                                                                                                                                                                                                                | 1 per 4.0 ft2                         | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA                   | SBS-AA, SBS-TA, APP-TA   | -45.0*                         |
| SC-113                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                 | Note 2                                                                                                                                                                                                                                                                                                                                                                                | 1 per 2.0 ft2                         | SBS-AA                                 | (Optional) SBS-AA                          | SBS-AA, SBS-TA           | -45.0*                         |
| SC-114                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                  | Note 2                                                                                                                                                                                                                                                                                                                                                                                | 1 per 2.0 ft2                         | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -45.0*                         |
| SC-115                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                | Note 2                                                                                                                                                                                                                                                                                                                                                                                | 1 per 4.0 ft <sup>2</sup>             | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA           | SBS-AA, SBS-TA           | -45.0*                         |
| SC-116                | Min. 22 ga., Type B, Grade 50 steel or min. 2,500 psi structural concrete | One or more layers, min. 1.5-inch, any combination, loose laid                | Min. 0.125-inch Sturdy-Dek Asphaltic Cover Board                                 | Fasteners: Note 2<br>Plates: Drill-Tec 3” Standard Steel Plate, Drill-Tec AccuTrac Flat Plate, Drill-Tec 3” Flat Steel Plate, Drill-Tec DF Steel Insulation Plate or Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)                                                                                                                                                                    | 1 per 3.2 ft <sup>2</sup>             | SBS-TA                                 | (Optional) SBS-TA                          | SBS-TA                   | -45.0*                         |
| SC-117                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                  | Note 2                                                                                                                                                                                                                                                                                                                                                                                | 1 per 1.6 ft2                         | SBS-AA, SBS-TA, APP-TA                 | (Optional) SBS-AA, SBS-TA, APP-TA          | SBS-AA, SBS-TA, APP-TA   | -52.5                          |

**TABLE 2d: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                                                             | Base Insulation Layer<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> ) | Top Insulation Layer                                              |                                                                  |                                       | Roof Cover ( <a href="#">Note 15</a> ) |                                            |                          | MDP<br>(psf) |
|------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------|----------------------------------------|--------------------------------------------|--------------------------|--------------|
|            |                                                                                                                |                                                                               | Type                                                              | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Base Ply                               | Ply                                        | Cap Ply                  |              |
| SC-118     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                      | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck Prime                                     | Note 2                                                           | 1 per 1.45 ft <sup>2</sup>            | SBS-AA, SBS-TA, APP-TA                 | (Optional) SBS-AA, SBS-TA, APP-TA          | SBS-AA, SBS-TA, APP-TA   | -52.5        |
| SC-119     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                      | One or more layers, any combination, loose laid                               | Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board                    | Note 2                                                           | 1 per 1.8 ft <sup>2</sup>             | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -52.5        |
| SC-120     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                      | One or more layers, any combination, loose laid                               | Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board                    | Note 2 (#14 only)                                                | 1 per 1.8 ft <sup>2</sup>             | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -60.0        |
| SC-121     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                      | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2                                                           | 1 per 1.3 ft <sup>2</sup>             | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -60.0        |
| SC-122     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                      | One or more layers, any combination, loose laid                               | Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board  | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA           | SBS-AA, SBS-TA           | -60.0        |
| SC-123     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                      | One or more layers, any combination, loose laid                               | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Note 2                                                           | 1 per 1.0 ft <sup>2</sup>             | SBS-AA                                 | (Optional) SBS-AA or SBS-TA                | SBS-AA, SBS-TA           | -67.5        |
| SC-124     | Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete                                      | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck Prime                                     | Note 2                                                           | 1 per 1.45 ft <sup>2</sup>            | SBS-TA                                 | (Optional) SBS-TA                          | SBS-TA                   | -67.5        |
| SC-125     | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete                                      | One or more layers, any combination, loose laid                               | Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board                  | Note 2                                                           | 1 per 1.3 ft <sup>2</sup>             | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -67.5        |
| SC-126     | Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete                                      | One or more layers, any combination, loose laid                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | Note 2                                                           | 1 per 1.45 ft <sup>2</sup>            | SBS-TA                                 | (Optional) SBS-TA                          | SBS-TA                   | -75.0        |
| SC-127     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                      | One or more layers, any combination, loose laid                               | Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board  | Note 2                                                           | 1 per 1.6 ft <sup>2</sup>             | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA           | SBS-AA, SBS-TA           | -82.5        |
| SC-128     | Min. 20 ga., type B, Grade 33 steel, min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board  | Note 2                                                           | 1 per 1.6 ft <sup>2</sup>             | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA           | SBS-AA, SBS-TA           | -90.0        |

**TABLE 2d: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No.                     | Deck<br>( <a href="#">Note 1</a> )                                                                               | Base Insulation Layer<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> )                                      | Top Insulation Layer                                                                          |                                                                  |                                       | Roof Cover ( <a href="#">Note 15</a> ) |                                   |                        | MDP<br>( <a href="#">psf</a> ) |
|--------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------|----------------------------------------|-----------------------------------|------------------------|--------------------------------|
|                                |                                                                                                                  |                                                                                                                    | Type                                                                                          | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Base Ply                               | Ply                               | Cap Ply                |                                |
| SC-129                         | Min. 20 ga., type B, Grade 33 steel or min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                                                                    | Min. 0.5-inch DensDeck Prime                                                                  | Note 2                                                           | 1 per 1.0 ft <sup>2</sup>             | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA         | SBS-TA, APP-TA         | -90.0                          |
| SC-130                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                        | One or more layers, any combination, loose laid                                                                    | Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board                                                | Note 2                                                           | 1 per 1.0 ft <sup>2</sup>             | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA         | SBS-TA, APP-TA         | -97.5                          |
| SC-131                         | Min. 20 ga., type B, Grade 33 steel, min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete   | One or more layers, any combination, loose laid                                                                    | Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                              | Note 2                                                           | 1 per 1.45 ft <sup>2</sup>            | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA  | SBS-AA, SBS-TA         | -97.5                          |
| SC-132                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                        | One or more layers, any combination, loose laid                                                                    | Min. 0.5-inch DensDeck Prime                                                                  | Note 2 (#14 only)                                                | 1 per 1.0 ft <sup>2</sup>             | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA         | SBS-TA, APP-TA         | -105.0                         |
| SC-133                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                        | One or more layers, any combination, loose laid                                                                    | Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board                                                | Note 2 (#14 only)                                                | 1 per 1.0 ft <sup>2</sup>             | APP-TA                                 | (Optional) APP-TA                 | APP-TA                 | -105.0                         |
| SC-134                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                        | (Optional) VB-BP1-AA, VB-BP2-AA or VB-SBS-AA over concrete deck<br>One or more layers, any combination, loose laid | Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board                                                | Note 2 (#14 only)                                                | 1 per 1.0 ft <sup>2</sup>             | SBS-TA                                 | (Optional) SBS-TA                 | SBS-TA                 | -120.0                         |
| SC-135                         | Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete                                        | One or more layers, any combination, loose laid                                                                    | Min. 0.5-inch DensDeck Prime                                                                  | Note 2                                                           | 1 per 1.0 ft <sup>2</sup>             | SBS-TA                                 | (Optional) SBS-TA                 | SBS-TA                 | -127.5                         |
| <b>SELF-ADHERING BASE PLY:</b> |                                                                                                                  |                                                                                                                    |                                                                                               |                                                                  |                                       |                                        |                                   |                        |                                |
| SC-136                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                        | One or more layers, any combination, loose laid                                                                    | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                               | Note 2                                                           | 1 per 3.2 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-SA, SBS-TA, APP-TA | SBS-SA, SBS-TA, APP-TA | -30.0*                         |
| SC-137                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                        | (Optional) One or more layers, any combination, loose laid                                                         | Min. 2.0-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                             | Note 2                                                           | 1 per 4.0 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-SA, SBS-TA, APP-TA | SBS-SA, SBS-TA, APP-TA | -37.5*                         |
| SC-138                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                        | (Optional) One or more layers, any combination, loose laid                                                         | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH | Note 2                                                           | 1 per 4.0 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA, APP-TA         | SBS-TA, APP-TA         | -37.5*                         |

**TABLE 2d: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> ) | Top Insulation Layer                                                                                                            |                                                                  |                                       | Roof Cover ( <a href="#">Note 15</a> ) |                                   |                        | MDP<br>( <a href="#">psf</a> ) |
|------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------|----------------------------------------|-----------------------------------|------------------------|--------------------------------|
|            |                                                                           |                                                                               | Type                                                                                                                            | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Base Ply                               | Ply                               | Cap Ply                |                                |
| SC-139     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board                             | Note 2                                                           | 1 per 2.7 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-SA, SBS-TA, APP-TA | SBS-SA, SBS-TA, APP-TA | -45.0*                         |
| SC-140     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA       | -45.0*                         |
| SC-141     | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA, APP-TA         | SBS-TA, APP-TA         | -45.0*                         |
| SC-142     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                                               | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-SA                 | SBS-SA                 | -45.0*                         |
| SC-143     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH                                 | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA, APP-TA         | SBS-TA, APP-TA         | -45.0*                         |
| SC-144     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2.0-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH                                 | Note 2                                                           | 1 per 3.2 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA, APP-TA         | SBS-TA, APP-TA         | -45.0*                         |
| SC-145     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2.0-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                                               | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-SA                 | SBS-SA                 | -45.0*                         |
| SC-146     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | Note 2                                                           | 1 per 1.6 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA       | -52.5                          |
| SC-147     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board                                                                                  | Note 2                                                           | 1 per 1.8 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA       | -52.5                          |
| SC-148     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board                                                                  | Note 2                                                           | 1 per 1.3 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA       | -52.5                          |

**TABLE 2d: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No.              | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> ) | Top Insulation Layer                                              |                                                                  |                                       | Roof Cover ( <a href="#">Note 15</a> ) |                                      |                  | MDP<br>( <a href="#">psf</a> ) |
|-------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------|----------------------------------------|--------------------------------------|------------------|--------------------------------|
|                         |                                                                           |                                                                               | Type                                                              | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Base Ply                               | Ply                                  | Cap Ply          |                                |
| SC-149                  | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard Polyiso Insulation                      | Note 2                                                           | 1 per 1.8 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA                    | SBS-TA           | -60.0                          |
| SC-150                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | Note 2                                                           | 1 per 1.3 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA   | -60.0                          |
| SC-151                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2.0-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | Note 2                                                           | 1 per 1.45 ft <sup>2</sup>            | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA   | -60.0                          |
| SC-152                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra     | Note 2                                                           | 1 per 1.8 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA   | -60.0                          |
| SC-153                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2                                                           | 1 per 1.3 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA or APP-TA          | SBS-TA or APP-TA | -60.0                          |
| SC-154                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board                    | Note 2 (#14 only)                                                | 1 per 1.8 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA or APP-TA          | SBS-TA or APP-TA | -60.0                          |
| SC-155                  | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra   | Note 2                                                           | 1 per 1.3 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA   | -67.5                          |
| SC-156                  | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board                  | Note 2                                                           | 1 per 1.3 ft <sup>2</sup>             | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA   | -67.5                          |
| <b>VENTING SYSTEMS:</b> |                                                                           |                                                                               |                                                                   |                                                                  |                                       |                                        |                                      |                  |                                |
| SC-157                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra     | Note 2                                                           | 1 per 4.0 ft <sup>2</sup>             | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -37.5*                         |
| SC-158                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard Polyiso Insulation                      | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -45.0*                         |
| SC-159                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                      | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -45.0*                         |
| SC-160                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2.0-inch EnergyGuard RH                                      | Note 2                                                           | 1 per 2.9 ft <sup>2</sup>             | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -45.0*                         |

**TABLE 2d: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> ) | Top Insulation Layer                         |                                                                  |                                       | Roof Cover ( <a href="#">Note 15</a> ) |                                            |         | MDP<br>(psf) |
|------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------|---------------------------------------|----------------------------------------|--------------------------------------------|---------|--------------|
|            |                                                                           |                                                                               | Type                                         | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Base Ply                               | Ply                                        | Cap Ply |              |
| SC-161     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard Ultra              | Note 2                                                           | 1 per 3.2 ft <sup>2</sup>             | BP-LL                                  | (Optional)<br>One or more<br>BP-AA, SBS-AA | SBS-AA  | -45.0*       |
| SC-162     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2.5-inch EnergyGuard RA                 | Note 2                                                           | 1 per 4.0 ft <sup>2</sup>             | BP-LL                                  | BP-AA, SBS-AA                              | SBS-AA  | -45.0*       |
| SC-163     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 3-inch EnergyGuard RH                   | Note 2                                                           | 1 per 3.2 ft <sup>2</sup>             | BP-LL                                  | (Optional)<br>One or more<br>BP-AA, SBS-AA | SBS-AA  | -45.0*       |
| SC-164     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 3-inch EnergyGuard Polyiso Insulation   | Note 2                                                           | 1 per 3.2 ft <sup>2</sup>             | BP-LL                                  | (Optional)<br>One or more<br>BP-AA, SBS-AA | SBS-AA  | -45.0*       |
| SC-165     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 3-inch EnergyGuard Polyiso Insulation   | Note 2                                                           | 1 per 4.0 ft <sup>2</sup>             | BP-LL                                  | One or more<br>BP-AA, SBS-AA               | SBS-AA  | -45.0*       |
| SC-166     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard Polyiso Insulation | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | BP-LL                                  | (Optional)<br>One or more<br>BP-AA, SBS-AA | SBS-AA  | -52.5        |
| SC-167     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2-inch EnergyGuard RH                   | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | BP-LL                                  | (Optional)<br>One or more<br>BP-AA, SBS-AA | SBS-AA  | -52.5        |
| SC-168     | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard Polyiso Insulation | Note 2                                                           | 1 per 1.8 ft <sup>2</sup>             | BP-LL                                  | (Optional)<br>One or more<br>BP-AA, SBS-AA | SBS-AA  | -60.0        |
| SC-169     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2.0-inch EnergyGuard Ultra              | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | BP-LL                                  | (Optional)<br>One or more<br>BP-AA, SBS-AA | SBS-AA  | -60.0        |
| SC-170     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2-inch EnergyGuard Polyiso Insulation   | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | BP-LL                                  | (Optional)<br>One or more<br>BP-AA, SBS-AA | SBS-AA  | -60.0        |
| SC-171     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2-inch EnergyGuard RA, EnergyGuard RH   | Note 2                                                           | 1 per 1.45 ft <sup>2</sup>            | BP-LL                                  | (Optional)<br>One or more<br>BP-AA, SBS-AA | SBS-AA  | -67.5        |
| SC-172     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 3-inch EnergyGuard RH                   | Note 2                                                           | 1 per 1.6 ft <sup>2</sup>             | BP-LL                                  | (Optional)<br>One or more<br>BP-AA, SBS-AA | SBS-AA  | -67.5        |

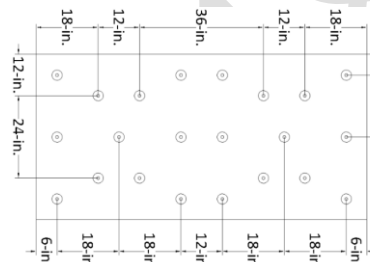
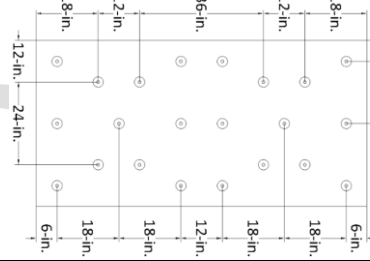
**TABLE 2d: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No.                   | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> ) | Top Insulation Layer                                              |                                                                  |                                       | Roof Cover ( <a href="#">Note 15</a> ) |                                      |                                     | MDP<br>( <a href="#">psf</a> ) |
|------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------|----------------------------------------|--------------------------------------|-------------------------------------|--------------------------------|
|                              |                                                                           |                                                                               | Type                                                              | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Base Ply                               | Ply                                  | Cap Ply                             |                                |
| SC-173                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2-inch EnergyGuard Polyiso Insulation                        | Note 2                                                           | 1 per 1.45 ft <sup>2</sup>            | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA                              | -75.0                          |
| SC-174                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2.0-inch EnergyGuard Ultra                                   | Note 2                                                           | 1 per 1.45 ft <sup>2</sup>            | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA                              | -75.0                          |
| SC-175                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard RH      | Note 2                                                           | 1 per 1.45 ft <sup>2</sup>            | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA (ASTM D6164, polyester only) | -82.5                          |
| SC-176                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 3-inch EnergyGuard Polyiso Insulation                        | Note 2                                                           | 1 per 1.6 ft <sup>2</sup>             | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA                              | -82.5                          |
| SC-177                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck                                           | Note 2                                                           | 1 per 1.0 ft <sup>2</sup>             | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA                              | -82.5                          |
| SC-178                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2                                                           | 1 per 1.0 ft <sup>2</sup>             | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA                              | -97.5                          |
| <b>COLD-APPLIED SYSTEMS:</b> |                                                                           |                                                                               |                                                                   |                                                                  |                                       |                                        |                                      |                                     |                                |
| SC-179                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | BP-CA                                  | None                                 | SBS-CA                              | -45.0*                         |
| SC-180                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | Note 2                                                           | 1 per 3.2 ft <sup>2</sup>             | SBS-CA or SBS-CA1                      | (Optional) SBS-CA1                   | SBS-CA or SBS-CA1                   | -45.0*                         |
| SC-181                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board                  | Note 2                                                           | 1 per 4.0 ft <sup>2</sup>             | SBS-CA or SBS-CA1                      | (Optional) SBS-CA1                   | SBS-CA or SBS-CA1                   | -45.0*                         |
| SC-182                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard RH, EnergyGuard Polyiso Insulation      | Note 2                                                           | 1 per 2.0 ft <sup>2</sup>             | SBS-CA1                                | (Optional) SBS-CA1                   | SBS-CA1                             | -45.0*                         |
| SC-183                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2-inch EnergyGuard RH, EnergyGuard Polyiso Insulation        | Note 2                                                           | 1 per 2.9 ft <sup>2</sup>             | SBS-CA1                                | (Optional) SBS-CA1                   | SBS-CA1                             | -45.0*                         |

**TABLE 2d: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> ) | Top Insulation Layer                                                                                                            |                                                                                                                                                                                                                               |                                       | Roof Cover ( <a href="#">Note 15</a> ) |                    |                   | MDP<br>(psf) |
|------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------|--------------------|-------------------|--------------|
|            |                                                                           |                                                                               | Type                                                                                                                            | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> )                                                                                                                                                              | Attach<br>( <a href="#">Note 17</a> ) | Base Ply                               | Ply                | Cap Ply           |              |
| SC-184     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | Note 2                                                                                                                                                                                                                        | 1 per 2.0 ft <sup>2</sup>             | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -45.0*       |
| SC-185     | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, min. 1.5-inch, any combination, loose laid                | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | Note 2                                                                                                                                                                                                                        | 1 per 2.0 ft <sup>2</sup>             | SBS-CA or SBS-CA1                      | (Optional) SBS-CA1 | SBS-CA or SBS-CA1 | -45.0*       |
| SC-186     | Min. 22 ga., Type B, Grade 50 steel or min. 2,500 psi structural concrete | One or more layers, min. 1.5-inch, any combination, loose laid                | Min. 0.125-inch Sturdy-Dek Asphaltic Cover Board                                                                                | Fasteners: Note 2<br>Plates: Drill-Tec 3" Standard Steel Plate, Drill-Tec AccuTrac Flat Plate, Drill-Tec 3" Flat Steel Plate, Drill-Tec DF Steel Insulation Plate or Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)            | 1 per 3.2 ft <sup>2</sup>             | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -45.0*       |
| SC-187     | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | Note 2<br>(AccuTrac Flat Plate only)                                                                                                                                                                                          | 1 per 1.3 ft <sup>2</sup>             | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -52.5        |
| SC-188     | Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                                                    | Note 2                                                                                                                                                                                                                        | 1 per 1.8 ft <sup>2</sup>             | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -60.0        |
| SC-189     | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                 | Note 2                                                                                                                                                                                                                        | 1 per 1.3 ft <sup>2</sup>             | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -67.5        |
| SC-190     | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination, loose laid                    | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                                   | Note 2                                                                                                                                                                                                                        | 1 per 1.8 ft <sup>2</sup>             | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -67.5        |
| SC-191     | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board                                                                                | Note 2                                                                                                                                                                                                                        | 1 per 1.3 ft <sup>2</sup>             | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -67.5        |
| SC-192     | Min. 22 ga., Type B, Grade 50 steel or min. 2,500 psi structural concrete | One or more layers, min. 1.5-inch, any combination, loose laid                | Min. 0.5-inch DensDeck Prime                                                                                                    | Drill-Tec #12 Fastener, Drill-Tec #12 DF Fastener or Drill-Tec #12 DP Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate Flat, Drill-Tec 3" Flat Steel Plate, Drill-Tec 3" Standard Steel Plate or Drill-Tec 3" Steel Plate | 1 per 2.0 ft <sup>2</sup>             | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -67.5        |
| SC-193     | Min. 22 ga., Type B, Grade 50 steel or min. 2,500 psi structural concrete | One or more layers, min. 1.5-inch, any combination, loose laid                | Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board                                                                                  | Drill-Tec #12 Fastener, Drill-Tec #12 DF Fastener or Drill-Tec #12 DP Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate Flat or Drill-Tec 3" Flat Steel Plate                                                              | 1 per 2.0 ft <sup>2</sup>             | SBS-CA1                                | (Optional) SBS-CA1 | SBS-CA1           | -67.5        |

**TABLE 2d: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No.                              | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> ) | Top Insulation Layer                                              |                                                                                                                                                                                                                                                                                                                      |                                       | Roof Cover ( <a href="#">Note 15</a> ) |                            |         | MDP<br>( <a href="#">psf</a> ) |
|-----------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------|----------------------------|---------|--------------------------------|
|                                         |                                                                           |                                                                               | Type                                                              | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> )                                                                                                                                                                                                                                                     | Attach<br>( <a href="#">Note 17</a> ) | Base Ply                               | Ply                        | Cap Ply |                                |
| SC-194                                  | Min. 22 ga., Type B, Grade 50 steel or min. 2,500 psi structural concrete | One or more layers, min. 1.5-inch, any combination, loose laid                | Min. 0.5-inch DensDeck Prime                                      | Drill-Tec #12 Fastener, Drill-Tec #12 DF Fastener or Drill-Tec #12 DP Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate Flat, Drill-Tec 3" Flat Steel Plate, Drill-Tec 3" Standard Steel Plate or Drill-Tec 3" Steel Plate<br> | 1 per 1.45 ft <sup>2</sup>            | SBS-CA1                                | (Optional) SBS-CA1         | SBS-CA1 | -82.5                          |
| SC-195                                  | Min. 22 ga., Type B, Grade 50 steel or min. 2,500 psi structural concrete | One or more layers, min. 1.5-inch, any combination, loose laid                | Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board                    | Drill-Tec #12 Fastener, Drill-Tec #12 DF Fastener or Drill-Tec #12 DP Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate Flat or Drill-Tec 3" Flat Steel Plate<br>                                                             | 1 per 1.45 ft <sup>2</sup>            | SBS-CA1                                | (Optional) SBS-CA1         | SBS-CA1 | -82.5                          |
| <b>HYBRID HOT/COLD-APPLIED SYSTEMS:</b> |                                                                           |                                                                               |                                                                   |                                                                                                                                                                                                                                                                                                                      |                                       |                                        |                            |         |                                |
| SC-196                                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2                                                                                                                                                                                                                                                                                                               | 1 per 4.0 ft <sup>2</sup>             | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -45.0*                         |
| SC-197                                  | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | Note 2<br>(AccuTrac Flat Plate)                                                                                                                                                                                                                                                                                      | 1 per 1.3 ft <sup>2</sup>             | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -52.5                          |
| SC-198                                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board  | Note 2                                                                                                                                                                                                                                                                                                               | 1 per 2.0 ft <sup>2</sup>             | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -60.0                          |

**TABLE 2d: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                                                             | Base Insulation Layer<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> ) | Top Insulation Layer                                             |                                                                  |                                       | Roof Cover ( <a href="#">Note 15</a> ) |                            |         | MDP<br>(psf) |
|------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------|----------------------------------------|----------------------------|---------|--------------|
|            |                                                                                                                |                                                                               | Type                                                             | Fastener<br>( <a href="#">Note 2</a> , <a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Base Ply                               | Ply                        | Cap Ply |              |
| SC-199     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete                                      | One or more layers, any combination, loose laid                               | Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2                                                           | 1 per 1.6 ft <sup>2</sup>             | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -82.5        |
| SC-200     | Min. 20 ga., type B, Grade 33 steel, min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2                                                           | 1 per 1.6 ft <sup>2</sup>             | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -90.0        |
| SC-201     | Min. 20 ga., type B, Grade 33 steel, min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete | One or more layers, any combination, loose laid                               | Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2                                                           | 1 per 1.45 ft <sup>2</sup>            | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -97.5        |

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No.              | Deck<br>( <a href="#">Note 1</a> )                                        | Base Insulation Layer                                                                                                                                                      | Top Insulation Layer                                                                                                                                                                  |                                                                   |                                       | Roof Cover ( <a href="#">Note 15</a> ) |                           |                   | MDP<br>( <a href="#">psf</a> ) |
|-------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|----------------------------------------|---------------------------|-------------------|--------------------------------|
|                         |                                                                           |                                                                                                                                                                            | Type                                                                                                                                                                                  | Fasten<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach<br>( <a href="#">Note 17</a> ) | Base Ply                               | Ply                       | Cap Ply           |                                |
| SELF-ADHERING BASE PLY: |                                                                           |                                                                                                                                                                            |                                                                                                                                                                                       |                                                                   |                                       |                                        |                           |                   |                                |
| SC-202                  | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder or GAF SA Vapor Retarder XL, self-adhered | Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | Note 2                                                            | 1 per 2.0 ft²                         | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA    | -45.0*                         |
| COLD-APPLIED BASE PLY:  |                                                                           |                                                                                                                                                                            |                                                                                                                                                                                       |                                                                   |                                       |                                        |                           |                   |                                |
| SC-203                  | Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 0.625-inch DensDeck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with GAF SA Vapor Retarder or GAF SA Vapor Retarder XL, self-adhered | Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | Note 2                                                            | 1 per 2.0 ft²                         | SBS-CA or SBS-CA1                      | (Optional) SBS-CA1        | SBS-CA or SBS-CA1 | -45.0*                         |

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-3: BONDED AND MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No.              | Deck<br><a href="#">(Note 1)</a>                                          | Base Insulation Layer                                                         | Top Insulation Layer          |                                                                                                                |                                                   | Roof Cover <a href="#">(Note 15)</a> |                             |                  | <a href="#">MDP</a><br><a href="#">(psf)</a> |
|-------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------|-----------------------------|------------------|----------------------------------------------|
|                         |                                                                           |                                                                               | Type                          | Adhesive & Fastener<br><a href="#">(Notes 6,7,8, Note 11)</a>                                                  | Attach <a href="#">(Note 17)</a>                  | Base Ply                             | Ply                         | Cap Ply          |                                              |
| CONVENTIONAL SYSTEMS:   |                                                                           |                                                                               |                               |                                                                                                                |                                                   |                                      |                             |                  |                                              |
| SC-204                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2.0-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra, loose-laid | Min. 0.25-inch DensDeck Prime | Adhesive: OB500<br>Fastener: Drill-Tec XHD (steel only) or Drill-Tec #14 HD (concrete only) & Drill-Tec Plate  | Adhesive: 12-inch o.c.<br>Fastener: 1 per 1.3 ft2 | SBS-TA or APP-TA                     | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -97.5                                        |
| SC-205                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2.0-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra, loose-laid | Min. 0.25-inch DensDeck Prime | Adhesive: LRF-XF<br>Fastener: Drill-Tec XHD (steel only) or Drill-Tec #14 HD (concrete only) & Drill-Tec Plate | Adhesive: 12-inch o.c.<br>Fastener: 1 per 1.3 ft2 | SBS-TA or APP-TA                     | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -97.5                                        |
| SELF-ADHERING BASE PLY: |                                                                           |                                                                               |                               |                                                                                                                |                                                   |                                      |                             |                  |                                              |
| SC-206                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2.0-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra, loose-laid | Min. 0.25-inch DensDeck Prime | Adhesive: OB500<br>Fastener: Drill-Tec XHD (steel only) or Drill-Tec #14 HD (concrete only) & Drill-Tec Plate  | Adhesive: 12-inch o.c.<br>Fastener: 1 per 1.3 ft2 | SBS-SA                               | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -97.5                                        |
| SC-207                  | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2.0-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra, loose-laid | Min. 0.25-inch DensDeck Prime | Adhesive: LRF-XF<br>Fastener: Drill-Tec XHD (steel only) or Drill-Tec #14 HD (concrete only) & Drill-Tec Plate | Adhesive: 12-inch o.c.<br>Fastener: 1 per 1.3 ft2 | SBS-SA                               | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -97.5                                        |

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

| System No.            | Deck<br>( <a href="#">Note 1</a> )                                        | Insulation Layer(s)<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> )                                        | Base Sheet                                                                                                                      |                                                                                                                 |                                                                                                     | Roof Cover ( <a href="#">Note 15</a> ) |                | MDP<br>( <a href="#">psf</a> ) |
|-----------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------|----------------|--------------------------------|
|                       |                                                                           |                                                                                                                    | Type                                                                                                                            | Fastener ( <a href="#">Note 2</a> , <a href="#">Note 11</a> )                                                   | Attach                                                                                              | Base Ply                               | Cap Ply        |                                |
| CONVENTIONAL SYSTEMS: |                                                                           |                                                                                                                    |                                                                                                                                 |                                                                                                                 |                                                                                                     |                                        |                |                                |
| SC-208                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete | One or more layers, any combination                                                                                | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet | Note 2                                                                                                          | 24-inch o.c. at min. 2-inch laps and 24-inch o.c. in two, equally spaced, staggered center rows     | BP-AA, SBS-AA                          | SBS-AA         | -30.0*                         |
| SC-209                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete | One or more layers, any combination                                                                                | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet | Note 2                                                                                                          | 18-inch o.c. at min. 2-inch laps and 18-inch o.c. in two, equally spaced, staggered center rows     | BP-AA, SBS-AA                          | SBS-AA         | -37.5*                         |
| SC-210                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete | One or more layers, any combination                                                                                | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet | Note 2                                                                                                          | 18-inch o.c. at min. 2-inch laps and 18-inch o.c. in three, equally spaced, staggered center rows   | BP-AA, SBS-AA                          | SBS-AA         | -45.0*                         |
| SC-211                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete | One or more layers, any combination                                                                                | GAFGLAS #80 Ultima Base Sheet                                                                                                   | Drill-Tec #12 DF Fastener (steel only) or Drill-Tec #14 DF Fastener with Drill-Tec 3” DF Steel Insulation Plate | 18-inch o.c. at min. 2-inch laps and 18-inch o.c. in three, equally spaced, staggered center rows   | BP-AA, SBS-AA                          | SBS-AA         | -45.0*                         |
| SC-212                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete | One or more layers, any combination                                                                                | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet | Note 2                                                                                                          | 12-inch o.c. at min. 2-inch laps and 18-inch o.c. in three, equally spaced, staggered center rows   | SBS-TA, APP-TA                         | SBS-TA, APP-TA | -45.0*                         |
| SC-213                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete | One or more layers, any combination                                                                                | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet | Note 2                                                                                                          | 12-inch o.c. at min. 3.5-inch laps and 12-inch o.c. in three, equally spaced, staggered center rows | SBS-AA                                 | SBS-AA, SBS-TA | -45.0*                         |
| SC-214                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete | (Optional) VB-BP1-AA, VB-BP2-AA or VB-SBS-AA over concrete deck<br>One or more layers, any combination insulation. | Ruberoïd Mop Smooth, Ruberoïd Mop Smooth 1.5, Ruberïod Mop Plus Smooth                                                          | Note 2                                                                                                          | 18-inch o.c. at min. 3.5-inch laps                                                                  | (Optional) SBS-TA                      | SBS-TA         | -45.0*                         |
| SC-215                | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete | One or more layers, any combination                                                                                | Ruberoïd Mop Smooth 1.5                                                                                                         | Note 2                                                                                                          | 18-inch o.c. at min. 3.5-inch laps                                                                  | BP-AA, SBS-AA                          | SBS-AA         | -45.0*                         |

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

| System No. | Deck<br>( <a href="#">Note 1</a> )                                        | Insulation Layer(s)<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> )                                       | Base Sheet                                                                      |                                                                                                                           |                                                                                                                                   | Roof Cover ( <a href="#">Note 15</a> ) |                | MDP<br>( <a href="#">psf</a> ) |
|------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------|--------------------------------|
|            |                                                                           |                                                                                                                   | Type                                                                            | Fastener ( <a href="#">Note 2</a> , <a href="#">Note 11</a> )                                                             | Attach                                                                                                                            | Base Ply                               | Cap Ply        |                                |
| SC-216     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | Ruberoïd Mop Smooth 1.5                                                         | Drill-Tec 2 in. Barbed Plate with Drill-Tec #12 (steel only) or #14                                                       | Off-centered in the lap by 0.5-inch towards the sheet-edge and spaced 18-inch o.c. within the min. 4-inch wide, heat-welded laps  | (Optional) SBS-TA                      | SBS-TA         | -45.0*                         |
| SC-217     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | Ruberoïd Mop Smooth 1.5                                                         | Drill-Tec Batten Bar with Drill-Tec #12 (steel only) or #14                                                               | 18-inch o.c. within min. 4-inch wide, heat-welded laps                                                                            | (Optional) SBS-TA                      | SBS-TA         | -45.0*                         |
| SC-218     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | Ruberoïd HW Smooth                                                              | Drill-Tec 2 in. Barbed Plate with Drill-Tec #12 (steel only) or #14                                                       | 12-inch o.c. within min. 4-inch wide, heat-welded laps                                                                            | (Optional) SBS-TA                      | SBS-TA         | -45.0*                         |
| SC-219     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) VB-BP1-AA, VB-BP2-AA or VB-SBS-AA over concrete deck<br>One or more layers, any combination insulation | Ruberoïd Mop Smooth, Ruberoïd Mop Smooth 1.5, Ruberoïd Mop Plus Smooth          | Note 2                                                                                                                    | 12-inch o.c. at min. 3.5-inch laps                                                                                                | (Optional) SBS-TA                      | SBS-TA         | -52.5                          |
| SC-220     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | Ruberoïd Mop Smooth 1.5                                                         | Drill-Tec 2 in. Barbed Plate with Drill-Tec #12 (steel only) or #14                                                       | Off-centered in the lap by 0.5-inch towards the sheet-edge and spaced 12-inch o.c. within the min. 4-inch wide, heat-welded laps  | (Optional) SBS-TA                      | SBS-TA         | -52.5                          |
| SC-221     | Min. 22 ga., type B, Grade 33 steel                                       | One or more layers, any combination                                                                               | Ruberoïd Mop Smooth 1.5                                                         | Drill-Tec 2-3/8 in. Barbed XHD Plate or Drill-Tec Eyehook AccuSeam Plate with Drill-Tec XHD                               | Off-centered in the lap by 0.25-inch towards the sheet-edge and spaced 12-inch o.c. within the min. 5-inch wide, heat-welded laps | (Optional) SBS-TA                      | SBS-TA         | -67.5                          |
| SC-222     | Min. 22 ga., type B, Grade 33 steel                                       | One or more layers, any combination                                                                               | Ruberoïd Mop Smooth 1.5                                                         | Drill-Tec Batten Bar with Drill-Tec XHD                                                                                   | 12-inch o.c. within min. 4-inch wide, heat-welded laps                                                                            | (Optional) SBS-TA                      | SBS-TA         | -67.5                          |
| SC-223     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet | Note 2                                                                                                                    | 6-inch o.c. at min. 3.5-inch laps and 12-inch o.c. in three, equally spaced, staggered center rows                                | SBS-AA                                 | SBS-AA, SBS-TA | -82.5                          |
| SC-224     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | GAFGLAS #80 Ultima Base Sheet                                                   | Drill-Tec #12 DF Fastener (steel only) or Drill-Tec #14 DF Fastener with Drill-Tec 3" DF Steel Insulation Plate           | 6-inch o.c. at min. 3.5-inch laps and 12-inch o.c. in three, equally spaced, staggered center rows                                | SBS-AA                                 | SBS-AA, SBS-TA | -82.5                          |
| SC-225     | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | GAFGLAS #80 Ultima Base Sheet                                                   | Note 2 or Drill-Tec #12 DF Fastener (steel only) or Drill-Tec #14 DF Fastener with Drill-Tec 3" DF Steel Insulation Plate | 6-inch o.c. at min. 3.5-inch laps and 12-inch o.c. in three, equally spaced, staggered center rows                                | SBS-TA, APP-TA                         | SBS-TA, APP-TA | -82.5                          |

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

| System No.                     | Deck<br>( <a href="#">Note 1</a> )                                        | Insulation Layer(s)<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> )                                       | Base Sheet                                                             |                                                                                                                                                                   |                                                                                                    | Roof Cover ( <a href="#">Note 15</a> )        |                          | MDP<br>( <a href="#">psf</a> ) |
|--------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------|--------------------------------|
|                                |                                                                           |                                                                                                                   | Type                                                                   | Fastener ( <a href="#">Note 2</a> , <a href="#">Note 11</a> )                                                                                                     | Attach                                                                                             | Base Ply                                      | Cap Ply                  |                                |
| SC-226                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | GAFLAS #75                                                             | Note 2 ( <i>Drill-Tec 3" Standard Steel Plate; Drill-Tec ASAP 3S (steel) or Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate only</i> ) | 6-inch o.c. at min. 3.5-inch laps and 12-inch o.c. in three, equally spaced, staggered center rows | SBS-TA, APP-TA                                | SBS-TA, APP-TA           | -82.5                          |
| SC-227                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | Ruberoïd Mop Smooth 1.5                                                | Note 2                                                                                                                                                            | 18-inch o.c. at min. 3.25-inch laps and 18-inch o.c. in two, equally spaced, staggered center rows | BP-AA, SBS-AA                                 | SBS-AA                   | -105.0                         |
| SC-228                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) VB-BP1-AA, VB-BP2-AA or VB-SBS-AA over concrete deck<br>One or more layers, any combination insulation | Ruberoïd Mop Smooth, Ruberoïd Mop Smooth 1.5, Ruberoïd Mop Plus Smooth | Note 2                                                                                                                                                            | 6-inch o.c. at min. 3.5-inch laps                                                                  | (Optional) SBS-TA                             | SBS-TA                   | -112.5                         |
| SC-229                         | Min. 22 ga., type B, Grade 80 steel                                       | One or more layers, any combination, min. 3-inch thick                                                            | GAFLAS #80 Ultima Base Sheet                                           | Drill-Tec #12 DF Fastener, Drill-Tec #14 DF Fastener or Drill-Tec #15 DF Fastener with Drill-Tec 3" DF Steel Insulation Plate                                     | 6-inch o.c. at min. 3.5-inch laps and 6-inch o.c. in three, equally spaced, staggered center rows  | SBS-TA                                        | SBS-TA                   | -142.5                         |
| SC-230                         | Min. 2,500 psi structural concrete                                        | One or more layers, any combination, min. 3-inch thick                                                            | GAFLAS #80 Ultima Base Sheet                                           | Drill-Tec #14 DF Fastener with Drill-Tec 3" DF Steel Insulation Plate                                                                                             | 6-inch o.c. at min. 3.5-inch laps and 6-inch o.c. in three, equally spaced, staggered center rows  | SBS-TA                                        | SBS-TA                   | -142.5                         |
| SC-231                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | GAFLAS #80 Ultima Base Sheet                                           | Note 2                                                                                                                                                            | 6-inch o.c. at min. 3.5-inch laps and 6-inch o.c. in three, equally spaced, staggered center rows  | (Optional) SBS-TA                             | SBS-TA                   | -150.0                         |
| SC-232                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | Ruberoïd Mop Smooth 1.5                                                | Drill-Tec #14 Fastener with Drill-Tec 2 3/8 in. Barbed XHD Plate or Drill-Tec Eyehook AccuSeam Plate                                                              | 6-inch o.c. at min. 3.25-inch laps and 6-inch o.c. in three, equally spaced, staggered center rows | SBS-TA                                        | SBS-TA                   | -150.0                         |
| SC-233                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | GAFLAS #75                                                             | Note 2 ( <i>Drill-Tec 3" Standard Steel Plate; Drill-Tec ASAP 3S (steel) or Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate only</i> ) | 6-inch o.c. at min. 3.5-inch laps and 6-inch o.c. in three, equally spaced, staggered center rows  | (Optional) Ruberoïd HW Smooth                 | SBS-TA                   | -150.0                         |
| <b>SELF-ADHERING BASE PLY:</b> |                                                                           |                                                                                                                   |                                                                        |                                                                                                                                                                   |                                                                                                    |                                               |                          |                                |
| SC-234                         | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                                                               | Liberty SBS Self-Adhering Base/Ply Sheet                               | Note 2                                                                                                                                                            | 12-inch o.c. at min. 3.5-inch laps and 18-inch o.c. in two, equally spaced, staggered center rows  | (Optional) SBS-SA, SBS-SA-T, SBS-TA or APP-TA | SBS-SA, SBS-TA or APP-TA | -30.0*                         |

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

| System No.                   | Deck<br>( <a href="#">Note 1</a> )                                        | Insulation Layer(s)<br>( <a href="#">Note 3</a> , <a href="#">Note 13</a> ) | Base Sheet                                                                    |                                                               |                                                                                                    | Roof Cover ( <a href="#">Note 15</a> ) |                       | MDP<br>(psf) |
|------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------|--------------|
|                              |                                                                           |                                                                             | Type                                                                          | Fastener ( <a href="#">Note 2</a> , <a href="#">Note 11</a> ) | Attach                                                                                             | Base Ply                               | Cap Ply               |              |
| SC-235                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                         | Liberty SBS Self-Adhering Base/Ply Sheet                                      | Note 2                                                        | 9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows      | (Optional) SBS-SA                      | SBS-SA                | -37.5        |
| SC-236                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                         | Liberty SBS Self-Adhering Base/Ply Sheet                                      | Note 2                                                        | 12-inch o.c. at min. 3.5-inch laps and 18-inch o.c. in one center row                              | (Optional) SBS-SA                      | SBS-SA                | -45.0*       |
| <b>COLD-APPLIED SYSTEMS:</b> |                                                                           |                                                                             |                                                                               |                                                               |                                                                                                    |                                        |                       |              |
| SC-237                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                         | Ruberoid Mop Smooth 1.5                                                       | Note 2                                                        | 18-inch o.c. at min. 3-inch laps                                                                   | None                                   | SBS-CA or SBS-CA1     | -30.0*       |
| SC-238                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                         | Ruberoid 20 Smooth                                                            | Note 2                                                        | 12-inch o.c. at min. 3-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows    | None                                   | SBS-CA or SBS-CA1     | -45.0*       |
| SC-239                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                         | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet                                 | Note 2                                                        | 12-inch o.c. at min. 2-inch laps and 12-inch o.c. in three, equally spaced, staggered center rows  | None                                   | SBS-CA                | -45.0*       |
| SC-240                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                         | Ruberoid Mop Smooth 1.5                                                       | Note 2                                                        | 24-inch o.c. at min. 3-inch laps and 24-inch o.c. in two, equally spaced, staggered center rows    | None                                   | SBS-CA or SBS-CA1     | -45.0        |
| SC-241                       | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination                                         | GAFLAS #80 Ultima Base Sheet or GAFLAS Stratavent Nailable Venting Base Sheet | Note 2                                                        | 6-inch o.c. at min. 3.5-inch laps and 12-inch o.c. in three, equally spaced, staggered center rows | SBS-CA at 2.0 gal/sq.                  | SBS-CA at 2.0 gal/sq. | -82.5        |

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE INSULATION LAYER ONLY)**  
 SEE [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

| System No.                                             | Deck<br>(Note 1)           | Base Insulation Layer                                                                                            |                         | Roof Cover (Note 15) |                                                        |                          | MDP<br>(psf) |
|--------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------|--------------------------------------------------------|--------------------------|--------------|
|                                                        |                            | Type                                                                                                             | Attach<br>(Notes 6,7,8) | Base Ply             | Ply                                                    | Cap Ply                  |              |
| CONVENTIONAL SYSTEMS WITH BASE INSULATION LAYER ONLY   |                            |                                                                                                                  |                         |                      |                                                        |                          |              |
| C-1.                                                   | Primed structural concrete | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                 | Hot asphalt             | BP-AA, SBS-AA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -165.0       |
| C-2.                                                   | Structural concrete        | Min. 0.25-inch DensDeck Prime                                                                                    | LRF-XF                  | SBS-TA               | (Optional) One or more SBS-TA                          | SBS-TA                   | -300.0       |
| C-3.                                                   | Structural concrete        | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                 | OB500                   | BP-AA, SBS-AA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -165.0       |
| C-4.                                                   | Structural concrete        | Min. 0.25-inch DensDeck Prime                                                                                    | OB500                   | SBS-TA               | (Optional) One or more SBS-TA                          | SBS-TA                   | -300.0       |
| SELF-ADHERING BASE PLY WITH BASE INSULATION LAYER ONLY |                            |                                                                                                                  |                         |                      |                                                        |                          |              |
| C-5.                                                   | Primed structural concrete | Min. 1.5-inch EnergyGuard Ultra                                                                                  | Hot asphalt             | SBS-SA               | (Optional) SBS-SA, SBS-TA, APP-TA                      | SBS-SA, SBS-TA, APP-TA   | -90.0        |
| C-6.                                                   | Primed structural concrete | Min. 1.5-inch EnergyGuard RA                                                                                     | Hot asphalt             | SBS-SA               | (Optional) SBS-SA, SBS-TA, APP-TA                      | SBS-TA, APP-TA           | -217.5       |
| C-7.                                                   | Structural concrete        | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                  | LRF-M                   | SBS-SA               | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -232.5       |
| C-8.                                                   | Structural concrete        | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                                     | LRF-M Canister          | SBS-SA               | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -232.5       |
| C-9.                                                   | Structural concrete        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                  | LRF-XF                  | SBS-SA               | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -137.5       |
| C-10.                                                  | Structural concrete        | Min. 0.5-inch EnergyGuard Polyiso Insulation                                                                     | LRF-XF                  | SBS-SA               | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -180.0       |
| C-11.                                                  | Structural concrete        | Min. 0.5-inch EnergyGuard Ultra                                                                                  | LRF-XF                  | SBS-SA               | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -232.5       |
| C-12.                                                  | Structural concrete        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer | LRF-XF                  | SBS-SA               | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -285.0       |
| C-13.                                                  | Structural concrete        | Min. 1.5-inch EnergyGuard RA or EnergyGuard RH                                                                   | LRF-XF                  | SBS-SA               | (Optional) SBS-SA, SBS-TA, APP-TA                      | SBS-TA, APP-TA           | -217.5       |
| C-14.                                                  | Structural concrete        | Min 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                  | OB500, 6-inch o.c.      | SBS-SA               | (Optional) SBS-SA                                      | SBS-SA                   | -110.0       |
| C-15.                                                  | Structural concrete        | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                     | OB500                   | SBS-SA               | (Optional) SBS-SA                                      | SBS-SA                   | -120.0       |
| C-16.                                                  | Structural concrete        | Min. 0.25-inch DensDeck                                                                                          | OB500                   | SBS-SA               | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -122.5       |
| C-17.                                                  | Structural concrete        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                  | OB500                   | SBS-SA               | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -137.5       |

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE INSULATION LAYER ONLY)**  
 SEE [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

| System No.                                                  | Deck<br><a href="#">(Note 1)</a> | Base Insulation Layer                                                                                            |                                         | Roof Cover <a href="#">(Note 15)</a> |                                      |                  | <a href="#">MDP (psf)</a> |
|-------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|------------------|---------------------------|
|                                                             |                                  | Type                                                                                                             | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                                  | Cap Ply          |                           |
| C-18.                                                       | Structural concrete              | Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board                                                   | OB500                                   | SBS-SA                               | (Optional) SBS-TA or APP-TA          | SBS-TA or APP-TA | -165.0                    |
| C-19.                                                       | Structural concrete              | Min. 0.25-inch DensDeck primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer                         | OB500                                   | SBS-SA                               | (Optional) SBS-TA or APP-TA          | SBS-TA or APP-TA | -167.5                    |
| C-20.                                                       | Structural concrete              | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                  | OB500                                   | SBS-SA                               | (Optional) SBS-TA or APP-TA          | SBS-TA or APP-TA | -232.5                    |
| C-21.                                                       | Structural concrete              | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer | OB500                                   | SBS-SA                               | (Optional) SBS-TA or APP-TA          | SBS-TA or APP-TA | -285.0                    |
| <b>VENTING SYSTEMS WITH BASE INSULATION LAYER ONLY</b>      |                                  |                                                                                                                  |                                         |                                      |                                      |                  |                           |
| C-22.                                                       | Primed structural concrete       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                     | Hot asphalt                             | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -150.0                    |
| C-23.                                                       | Primed structural concrete       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                     | Hot asphalt                             | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -150.0                    |
| C-24.                                                       | Primed structural concrete       | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                  | Hot asphalt                             | BP-LL                                | (Optional) BP-AA, SBS-AA             | SBS-AA           | -150.0                    |
| C-25.                                                       | Primed structural concrete       | Min. 1.5-inch EnergyGuard Ultra                                                                                  | Hot asphalt                             | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -172.5                    |
| C-26.                                                       | Primed structural concrete       | Min. 1.5-inch EnergyGuard Ultra                                                                                  | Hot asphalt                             | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -172.5                    |
| <b>COLD-APPLIED SYSTEMS WITH BASE INSULATION LAYER ONLY</b> |                                  |                                                                                                                  |                                         |                                      |                                      |                  |                           |
| C-27.                                                       | Structural concrete              | Min. 1.5-inch EnergyGuard RA or EnergyGuard RH                                                                   | LRF-XF                                  | SBS-CA1                              | (Optional) SBS-CA1                   | SBS-CA1          | -60.0                     |
| C-28.                                                       | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                     | OB500                                   | SBS-CA1                              | (Optional) SBS-CA1                   | SBS-CA1          | -60.0                     |

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP INSULATION LAYERS)**  
 SEE [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

| System No.                                                        | Deck<br>(Note 1)           | Base Insulation Layer                                                        |                         | Top Insulation Layer                                                                                                                          |                         | Roof Cover (Note 15)            |                                                        |                          | MDP<br>(psf) |
|-------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------|--------------------------|--------------|
|                                                                   |                            | Type                                                                         | Attach<br>(Notes 6,7,8) | Type                                                                                                                                          | Attach<br>(Notes 6,7,8) | Base Ply                        | Ply                                                    | Cap Ply                  |              |
| CONVENTIONAL SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER: |                            |                                                                              |                         |                                                                                                                                               |                         |                                 |                                                        |                          |              |
| C-29.                                                             | Primed structural concrete | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | Hot asphalt             | Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                   | Hot asphalt             | BP-AA                           | (Optional) BP-AA                                       | SBS-AA or SBS-TA         | -112.5       |
| C-30.                                                             | Primed structural concrete | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra            | Hot asphalt             | Min. 0.25-inch DensDeck Prime                                                                                                                 | Hot asphalt             | APP-TA                          | (Optional) APP-TA                                      | APP-TA                   | -127.5       |
| C-31.                                                             | Primed structural concrete | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra              | Hot asphalt             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum Fiber Roof Board | Hot asphalt             | BP-AA, SBS-AA                   | (Optional) BP-AA, SBS-AA                               | SBS-AA                   | -150.0       |
| C-32.                                                             | Primed structural concrete | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra            | Hot asphalt             | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                               | Hot asphalt             | BP-AA or SBS-AA                 | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -225.0       |
| C-33.                                                             | Primed structural concrete | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra            | Hot asphalt             | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                             | Hot asphalt             | SBS-TA                          | (Optional) SBS-TA                                      | SBS-TA                   | -232.5       |
| C-34.                                                             | Primed structural concrete | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | Hot asphalt             | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                               | Hot asphalt             | APP-TA                          | (Optional) APP-TA                                      | APP-TA                   | -240.0       |
| C-35.                                                             | Primed structural concrete | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | Hot asphalt             | Min. 0.25-inch DensDeck or DensDeck Prime                                                                                                     | Hot asphalt             | BP-AA, SBS-AA                   | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -240.0       |
| C-36.                                                             | Primed structural concrete | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | Hot asphalt             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board         | Hot asphalt             | BP-AA or SBS-AA                 | (Optional) One or more BP-AA, SBS-AA, SBS-TA           | SBS-AA, SBS-TA           | -255.0       |
| C-37.                                                             | Primed structural concrete | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | Hot asphalt             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                              | Hot asphalt             | BP-AA, SBS-AA                   | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -307.5       |
| C-38.                                                             | Structural concrete        | Min. 0.5-inch EnergyGuard Polyiso Insulation                                 | LRF-XF                  | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                             | LRF-XF                  | BP-AA, SBS-AA, SBS-TA or APP-TA | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -180.0       |

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP INSULATION LAYERS)**  
 SEE [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

| System No. | Deck<br><a href="#">(Note 1)</a> | Base Insulation Layer                                                                             |                                         | Top Insulation Layer                                                                           |                                         | Roof Cover <a href="#">(Note 15)</a> |                                                        |                          | <a href="#">MDP (psf)</a> |
|------------|----------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------------------------|--------------------------|---------------------------|
|            |                                  | Type                                                                                              | Attach<br><a href="#">(Notes 6,7,8)</a> | Type                                                                                           | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                                                    | Cap Ply                  |                           |
| C-39.      | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | LRF-XF                                  | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                | LRF-XF                                  | BP-AA or SBS-AA                      | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -187.5                    |
| C-40.      | Structural concrete              | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RH                                        | LRF-XF                                  | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, primed with Matrix 307 Premium Asphalt Primer | LRF-XF                                  | SBS-TA                               | (Optional) SBS-TA                                      | SBS-TA                   | -210.0                    |
| C-41.      | Structural concrete              | Min. 2.0-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | LRF-XF                                  | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                | LRF-XF                                  | BP-AA or SBS-AA                      | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -225.0                    |
| C-42.      | Structural concrete              | Min. 2.0-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | LRF-XF                                  | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                | LRF-XF                                  | SBS-TA or APP-TA                     | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -232.5                    |
| C-43.      | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | LRF-XF                                  | Min. 0.25-inch DensDeck Prime                                                                  | LRF-XF                                  | BP-AA, SBS-AA, SBS-TA or APP-TA      | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -240.0                    |
| C-44.      | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | LRF-XF                                  | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                              | LRF-XF                                  | SBS-TA, APP-TA                       | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -240.0                    |
| C-45.      | Structural concrete              | Min. 1.5-inch EnergyGuard Ultra                                                                   | LRF-XF                                  | Min. 0.25-inch DensDeck Prime                                                                  | LRF-XF                                  | SBS-TA                               | (Optional) SBS-TA                                      | SBS-TA                   | -300.0                    |
| C-46.      | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                      | OB500                                   | Min. 0.25-inch DensDeck or DensDeck Prime                                                      | OB500                                   | BP-AA, SBS-AA, SBS-TA or APP-TA      | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -150.0                    |
| C-47.      | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                      | OB500                                   | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                               | OB500                                   | BP-AA, SBS-AA                        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -165.0                    |
| C-48.      | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                   | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                | OB500                                   | BP-AA or SBS-AA                      | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -187.5                    |
| C-49.      | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                      | OB500                                   | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                              | OB500                                   | SBS-TA, APP-TA                       | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -195.0                    |
| C-50.      | Structural concrete              | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RH                                        | OB500                                   | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, primed with Matrix 307 Premium Asphalt Primer | OB500                                   | SBS-TA                               | (Optional) SBS-TA                                      | SBS-TA                   | -210.0                    |

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP INSULATION LAYERS)**  
 SEE [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

| System No.                                                                | Deck<br>( <a href="#">Note 1</a> ) | Base Insulation Layer                                                                             |                                           | Top Insulation Layer                                                                                                            |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                            |                          | MDP<br>(psf) |
|---------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------------|--------------------------|--------------|
|                                                                           |                                    | Type                                                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                                            | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                        | Cap Ply                  |              |
| C-51.                                                                     | Structural concrete                | Min. 2.0-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                     | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -225.0       |
| C-52.                                                                     | Structural concrete                | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | OB500                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | OB500                                     | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -240.0       |
| C-53.                                                                     | Structural concrete                | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | OB500                                     | Min. 0.25-inch DensDeck Prime                                                                                                   | OB500                                     | SBS-TA                                 | (Optional) SBS-TA                          | SBS-TA                   | -300.0       |
| <b>SELF-ADHERING BASE PLY WITH POLYISOCYANURATE BASE INSULATION LAYER</b> |                                    |                                                                                                   |                                           |                                                                                                                                 |                                           |                                        |                                            |                          |              |
| C-54.                                                                     | Structural concrete                | Min. 1.5-inch EnergyGuard RH                                                                      | LRF-M                                     | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | LRF-M                                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA                | SBS-TA or APP-TA         | -97.5        |
| C-55.                                                                     | Structural concrete                | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | LRF-M                                     | Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board                                                                  | LRF-M                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -165.0       |
| C-56.                                                                     | Structural concrete                | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | LRF-M                                     | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board (optional Matrix 307 Premium Asphalt Primer)                                    | LRF-M                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -232.5       |
| C-57.                                                                     | Structural concrete                | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | LRF-M                                     | (Optional) Additional layer(s) base insulation                                                                                  | LRF-M                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -232.5       |
| C-58.                                                                     | Structural concrete                | Min. 1.5-inch EnergyGuard RH                                                                      | LRF-M Canister                            | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | LRF-M Canister                            | SBS-SA                                 | (Optional) SBS-TA or APP-TA                | SBS-TA or APP-TA         | -97.5        |
| C-59.                                                                     | Structural concrete                | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                      | LRF-M Canister                            | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board (optional Matrix 307 Premium Asphalt Primer)                                    | LRF-M Canister                            | SBS-SA                                 | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -232.5       |
| C-60.                                                                     | Structural concrete                | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                      | LRF-M Canister                            | (Optional) Additional layer(s) base insulation                                                                                  | LRF-M Canister                            | SBS-SA                                 | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -232.5       |
| C-61.                                                                     | Structural concrete                | Min. 1.5-inch EnergyGuard RH                                                                      | LRF-XF                                    | Min. 0.5-inch EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board                                       | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA or APP-TA                | SBS-TA or APP-TA         | -97.5        |
| C-62.                                                                     | Structural concrete                | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | LRF-XF                                    | Min. 0.25-inch DensDeck Prime                                                                                                   | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-SA                          | SBS-SA                   | -152.5       |
| C-63.                                                                     | Structural concrete                | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | LRF-XF                                    | Min. 0.25-inch DensDeck Prime                                                                                                   | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-SA                          | SBS-SA                   | -152.5       |
| C-64.                                                                     | Structural concrete                | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | LRF-XF                                    | (Optional) Additional layer(s) base insulation                                                                                  | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -232.5       |

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP INSULATION LAYERS)**  
 SEE [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

| System No. | Deck<br><a href="#">(Note 1)</a> | Base Insulation Layer                                                                                             |                                         | Top Insulation Layer                                                                                                               |                                         | Roof Cover <a href="#">(Note 15)</a> |                             |                  | <a href="#">MDP (psf)</a> |
|------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|-----------------------------|------------------|---------------------------|
|            |                                  | Type                                                                                                              | Attach<br><a href="#">(Notes 6,7,8)</a> | Type                                                                                                                               | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                         | Cap Ply          |                           |
| C-65.      | Structural concrete              | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                   | LRF-XF                                  | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board (optional Matrix 307 Premium Asphalt Primer)                                       | LRF-XF                                  | SBS-SA                               | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -232.5                    |
| C-66.      | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                      | LRF-XF                                  | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                    | LRF-XF                                  | SBS-SA                               | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -270.0                    |
| C-67.      | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                      | LRF-XF                                  | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board; surface shall be primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer | LRF-XF                                  | SBS-SA                               | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -285.0                    |
| C-68.      | Structural concrete              | Min. 1.5-inch EnergyGuard RH                                                                                      | OB500                                   | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board    | OB500                                   | SBS-SA                               | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -97.5                     |
| C-69.      | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                      | OB500                                   | Min. 0.25-inch DensDeck                                                                                                            | OB500                                   | SBS-SA                               | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -122.5                    |
| C-70.      | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                                      | OB500                                   | Min. 0.25-inch DensDeck Prime                                                                                                      | OB500                                   | SBS-SA                               | (Optional) SBS-SA           | SBS-SA           | -152.5                    |
| C-71.      | Structural concrete              | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RA or EnergyGuard RH | OB500                                   | Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board                                                                     | OB500                                   | SBS-SA                               | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -165.0                    |
| C-72.      | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                                      | OB500                                   | Min. 0.25-inch DensDeck; surface shall be primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer                         | OB500                                   | SBS-SA                               | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -167.5                    |
| C-73.      | Structural concrete              | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                   | OB500                                   | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board (optional Matrix 307 Premium Asphalt Primer)                                       | OB500                                   | SBS-SA                               | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -232.5                    |
| C-74.      | Structural concrete              | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                   | OB500                                   | (Optional) Additional layer(s) base insulation                                                                                     | OB500                                   | SBS-SA                               | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -232.5                    |
| C-75.      | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                      | OB500                                   | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                    | OB500                                   | SBS-SA                               | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -270.0                    |
| C-76.      | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                      | OB500                                   | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board; surface shall be primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer | OB500                                   | SBS-SA                               | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -285.0                    |

VENTING SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP INSULATION LAYERS)**  
 SEE [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

| System No. | Deck<br><a href="#">(Note 1)</a> | Base Insulation Layer                                             |                                         | Top Insulation Layer                                             |                                         | Roof Cover <a href="#">(Note 15)</a> |                                      |                  | <a href="#">MDP (psf)</a> |
|------------|----------------------------------|-------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|------------------|---------------------------|
|            |                                  | Type                                                              | Attach<br><a href="#">(Notes 6,7,8)</a> | Type                                                             | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                                  | Cap Ply          |                           |
| C-77.      | Primed structural concrete       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | Hot asphalt                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | Hot asphalt                             | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -90.0                     |
| C-78.      | Primed structural concrete       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | Hot asphalt                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | Hot asphalt                             | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -90.0                     |
| C-79.      | Primed structural concrete       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                      | Hot asphalt                             | (Optional) Additional layer(s) base insulation                   | Hot asphalt                             | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -150.0                    |
| C-80.      | Primed structural concrete       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                      | Hot asphalt                             | (Optional) Additional layer(s) base insulation                   | Hot asphalt                             | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -150.0                    |
| C-81.      | Primed structural concrete       | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra   | Hot asphalt                             | (Optional) Additional layer(s) base insulation                   | Hot asphalt                             | BP-LL                                | (Optional) BP-AA, SBS-AA             | SBS-AA           | -150.0                    |
| C-82.      | Primed structural concrete       | Min. 1.5-inch EnergyGuard Ultra                                   | Hot asphalt                             | (Optional) Additional layer(s) base insulation                   | Hot asphalt                             | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -172.5                    |
| C-83.      | Primed structural concrete       | Min. 1.5-inch EnergyGuard Ultra                                   | Hot asphalt                             | (Optional) Additional layer(s) base insulation                   | Hot asphalt                             | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -172.5                    |
| C-84.      | Primed structural concrete       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | Hot asphalt                             | Min. 0.25-inch DensDeck or DensDeck Prime                        | Hot asphalt                             | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -240.0                    |
| C-85.      | Primed structural concrete       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | Hot asphalt                             | Min. 0.25-inch DensDeck or DensDeck Prime                        | Hot asphalt                             | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -240.0                    |
| C-86.      | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                      | LRF-XF                                  | (Optional) Additional layer(s) base insulation                   | LRF-XF                                  | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -150.0                    |
| C-87.      | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                      | LRF-XF                                  | (Optional) Additional layer(s) base insulation                   | LRF-XF                                  | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -150.0                    |
| C-88.      | Structural concrete              | Min. 1.5-inch EnergyGuard Ultra                                   | LRF-XF                                  | (Optional) Additional layer(s) base insulation                   | LRF-XF                                  | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -172.5                    |
| C-89.      | Structural concrete              | Min. 1.5-inch EnergyGuard Ultra                                   | LRF-XF                                  | (Optional) Additional layer(s) base insulation                   | LRF-XF                                  | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -172.5                    |

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP INSULATION LAYERS)**  
 SEE [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

| System No.                                                               | Deck<br><a href="#">(Note 1)</a> | Base Insulation Layer                                                                             |                                         | Top Insulation Layer                                                                                                            |                                         | Roof Cover <a href="#">(Note 15)</a> |                                      |                   | <a href="#">MDP (psf)</a> |
|--------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|-------------------|---------------------------|
|                                                                          |                                  | Type                                                                                              | Attach<br><a href="#">(Notes 6,7,8)</a> | Type                                                                                                                            | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                                  | Cap Ply           |                           |
| C-90.                                                                    | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                      | LRF-XF                                  | Min. 0.25-inch DensDeck Prime                                                                                                   | LRF-XF                                  | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -180.0                    |
| C-91.                                                                    | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                      | LRF-XF                                  | Min. 0.25-inch DensDeck Prime                                                                                                   | LRF-XF                                  | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA  | -180.0                    |
| C-92.                                                                    | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | LRF-XF                                  | Min. 0.25-inch DensDeck Prime                                                                                                   | LRF-XF                                  | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -240.0                    |
| C-93.                                                                    | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | LRF-XF                                  | Min. 0.25-inch DensDeck Prime                                                                                                   | LRF-XF                                  | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA  | -240.0                    |
| C-94.                                                                    | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                   | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                | OB500                                   | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -90.0                     |
| C-95.                                                                    | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                   | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                | OB500                                   | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA  | -90.0                     |
| C-96.                                                                    | Structural concrete              | Min. 1.5-inch EnergyGuard Ultra                                                                   | OB500                                   | (Optional) Additional layer(s) base insulation                                                                                  | OB500                                   | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -150.0                    |
| C-97.                                                                    | Structural concrete              | Min. 1.5-inch EnergyGuard Ultra                                                                   | OB500                                   | (Optional) Additional layer(s) base insulation                                                                                  | OB500                                   | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA  | -150.0                    |
| C-98.                                                                    | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                   | Min. 0.25-inch DensDeck or DensDeck Prime                                                                                       | OB500                                   | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -150.0                    |
| C-99.                                                                    | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                   | Min. 0.25-inch DensDeck or DensDeck Prime                                                                                       | OB500                                   | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA  | -150.0                    |
| C-100.                                                                   | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | OB500                                   | (Optional) Additional layer(s) base insulation                                                                                  | OB500                                   | BP-LL                                | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -150.0                    |
| C-101.                                                                   | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | OB500                                   | (Optional) Additional layer(s) base insulation                                                                                  | OB500                                   | BP-LL                                | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA  | -150.0                    |
| <b>COLD-APPLIED SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:</b> |                                  |                                                                                                   |                                         |                                                                                                                                 |                                         |                                      |                                      |                   |                           |
| C-102.                                                                   | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH                                      | LRF-M, LRF-M Canister or M-OSFA         | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | LRF-M, LRF-M Canister or M-OSFA         | SBS-CA or SBS-CA1                    | None                                 | SBS-CA or SBS-CA1 | -97.5                     |

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP INSULATION LAYERS)**  
 SEE [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

| System No.                                                                          | Deck<br><a href="#">(Note 1)</a> | Base Insulation Layer                                                        |                                         | Top Insulation Layer                                                                                                                  |                                         | Roof Cover <a href="#">(Note 15)</a> |                            |                   | <a href="#">MDP (psf)</a> |
|-------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|----------------------------|-------------------|---------------------------|
|                                                                                     |                                  | Type                                                                         | Attach<br><a href="#">(Notes 6,7,8)</a> | Type                                                                                                                                  | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                        | Cap Ply           |                           |
| C-103.                                                                              | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH                 | LRF-XF                                  | Min. 0.5-inch EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board                                             | LRF-XF                                  | SBS-CA or SBS-CA1                    | None                       | SBS-CA or SBS-CA1 | -97.5                     |
| C-104.                                                                              | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF                                  | Min. 0.25-inch DensDeck Prime                                                                                                         | LRF-XF                                  | SBS-CA1                              | None                       | SBS-CA1           | -127.5                    |
| C-105.                                                                              | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF                                  | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                       | LRF-XF                                  | SBS-CA1                              | None                       | SBS-CA1           | -172.5                    |
| C-106.                                                                              | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500                                   | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                      | OB500                                   | SBS-CA                               | None                       | SBS-CA            | -45.0                     |
| C-107.                                                                              | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH                 | OB500                                   | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board       | OB500                                   | SBS-CA or SBS-CA1                    | None                       | SBS-CA or SBS-CA1 | -97.5                     |
| C-108.                                                                              | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500                                   | Min. 0.25-inch DensDeck Prime                                                                                                         | OB500                                   | SBS-CA1                              | None                       | SBS-CA1           | -127.5                    |
| C-109.                                                                              | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500                                   | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                       | OB500                                   | SBS-CA1                              | None                       | SBS-CA1           | -172.5                    |
| <b>HYBRID COLD/HOT-APPLIED SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:</b> |                                  |                                                                              |                                         |                                                                                                                                       |                                         |                                      |                            |                   |                           |
| C-110.                                                                              | Primed structural concrete       | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | Hot asphalt                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                             | BP-AA or SBS-AA                      | (Optional) BP-AA or SBS-AA | SBS-CA1           | -255.0                    |
| C-111.                                                                              | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation                                 | LRF-XF                                  | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                     | LRF-XF                                  | BP-AA or SBS-AA                      | (Optional) BP-AA or SBS-AA | SBS-CA1           | -180.0                    |
| C-112.                                                                              | Structural concrete              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | LRF-XF                                  | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                     | LRF-XF                                  | BP-AA or SBS-AA                      | (Optional) BP-AA or SBS-AA | SBS-CA1           | -240.0                    |
| C-113.                                                                              | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500                                   | Min. 0.25-inch DensDeck Prime                                                                                                         | OB500                                   | BP-AA or SBS-AA                      | (Optional) BP-AA or SBS-AA | SBS-CA1           | -127.5                    |
| C-114.                                                                              | Structural concrete              | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500                                   | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                       | OB500                                   | BP-AA or SBS-AA                      | (Optional) BP-AA or SBS-AA | SBS-CA1           | -172.5                    |

**TABLE 3b: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP INSULATION LAYERS)**  
 SEE [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

| System No.                                                     | Deck<br>(Note 1)    | Base Insulation Layer                               |                         | Top Insulation Layer                                              |                         | Roof Cover (Note 15)            |                                            |                          | MDP<br>(psf) |
|----------------------------------------------------------------|---------------------|-----------------------------------------------------|-------------------------|-------------------------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------|--------------------------|--------------|
|                                                                |                     | Type                                                | Attach<br>(Notes 6,7,8) | Type                                                              | Attach<br>(Notes 6,7,8) | Base Ply                        | Ply                                        | Cap Ply                  |              |
| CONVENTIONAL SYSTEMS WITH POLYSTYRENE BASE INSULATION LAYER:   |                     |                                                     |                         |                                                                   |                         |                                 |                                            |                          |              |
| C-115.                                                         | Structural concrete | Min. 2-inch Styrofoam Brand Roofmate or Highload 60 | OB500                   | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                   | SBS-TA, APP-TA                  | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -240.0       |
| C-116.                                                         | Structural concrete | Min. 2-inch Styrofoam Brand Roofmate or Highload 60 | OB500                   | Min. 0.25-inch DensDeck or DensDeck Prime                         | OB500                   | BP-AA, SBS-AA, SBS-TA or APP-TA | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -277.5       |
| SELF-ADHERING BASE PLY WITH POLYSTYRENE BASE INSULATION LAYER: |                     |                                                     |                         |                                                                   |                         |                                 |                                            |                          |              |
| C-117.                                                         | Structural concrete | Min. 2-inch Styrofoam Brand Roofmate or Highload 60 | OB500                   | Min. 0.25-inch DensDeck Prime                                     | OB500                   | SBS-SA                          | (Optional) SBS-SA                          | SBS-SA                   | -152.5       |

**TABLE 3c: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

| System No.              | Deck<br><a href="#">(Note 1)</a> | Primer                                                          | Roof Cover <a href="#">(Note 15)</a>                                                            |                             |                  | MDP<br><a href="#">(psf)</a> |
|-------------------------|----------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------|------------------|------------------------------|
|                         |                                  |                                                                 | Base Ply                                                                                        | Ply                         | Cap Ply          |                              |
| CONVENTIONAL SYSTEMS:   |                                  |                                                                 |                                                                                                 |                             |                  |                              |
| C-118.                  | Structural concrete              | Matrix 307 Premium Asphalt Primer or ASTM D41 primer            | APP-TA                                                                                          | (Optional) APP-TA           | APP-TA           | -90.0                        |
| C-119.                  | Structural concrete              | Matrix 307 Premium Asphalt Primer or ASTM D41 primer            | (Optional) Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth or Ruberoid HW 30 Smooth, torch-applied | None                        | SBS-TA           | -283.1                       |
| C-120.                  | Structural concrete              | Matrix 307 Premium Asphalt Primer or ASTM D41 primer            | BP-AA, SBS-AA                                                                                   | BP-AA, SBS-AA               | SBS-AA           | -442.5                       |
| C-121.                  | Structural concrete              | (Optional) Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid HW Smooth, torch-applied                                                               | (Optional) SBS-TA           | SBS-TA           | -465.0                       |
| SELF-ADHERING BASE PLY: |                                  |                                                                 |                                                                                                 |                             |                  |                              |
| C-122.                  | Structural concrete              | Matrix 307 Premium Asphalt Primer or ASTM D41 primer            | SBS-SA                                                                                          | (Optional) SBS-SA           | SBS-SA           | -72.5                        |
| C-123.                  | Structural concrete              | Matrix 307 Premium Asphalt Primer or ASTM D41 primer            | SBS-SA                                                                                          | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -140.0                       |
| C-124.                  | Structural concrete              | GAF SA Primer at 0.7 gal/square.                                | SBS-SA                                                                                          | None                        | SBS-SA           | -287.5                       |
| VENTING SYSTEMS:        |                                  |                                                                 |                                                                                                 |                             |                  |                              |
| C-125.                  | Structural concrete              | Matrix 307 Premium Asphalt Primer or ASTM D41 primer            | BP-LL                                                                                           | BP-AA, SBS-AA               | SBS-AA           | -185.0                       |
| COLD-APPLIED SYSTEMS:   |                                  |                                                                 |                                                                                                 |                             |                  |                              |
| C-126.                  | Structural concrete              | Matrix 307 Premium Asphalt Primer or ASTM D41 primer            | BP-AA, BP-CA, SBS-CA                                                                            | (Optional) SBS-CA           | SBS-CA           | -307.5                       |

**TABLE 4A: LIGHTWEIGHT INSULATING CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

 SEE [NOTE 10A](#) FOR VAPOR BARRIER OPTIONS

| System No.                            | Deck<br><a href="#">(Note 1)</a> | Lightweight Concrete<br><a href="#">(Note 14)</a>                           | Base Insulation Layer                                                        |                                         | Coverboard                                                                    |                                         | Roof Cover <a href="#">(Note 15)</a> |                                                        |                          | <a href="#">MDP</a><br><a href="#">(psf)</a> |
|---------------------------------------|----------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------------------------|--------------------------|----------------------------------------------|
|                                       |                                  |                                                                             | Type                                                                         | Attach<br><a href="#">(Notes 6,7,8)</a> | Type                                                                          | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                                                    | Cap Ply                  |                                              |
| ELASTIZELL <a href="#">(FL4994)</a> : |                                  |                                                                             |                                                                              |                                         |                                                                               |                                         |                                      |                                                        |                          |                                              |
| LWC-1.                                | Structural concrete              | Elastizell Range II Lightweight Insulating Concrete ( <i>min. 200 psi</i> ) | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500                                   | Min. 0.25-inch DensDeck Prime                                                 | OB500                                   | SBS-SA                               | (Optional) SBS-SA                                      | SBS-SA                   | -152.5                                       |
| LWC-2.                                | Structural concrete              | Elastizell Range II Lightweight Insulating Concrete ( <i>min. 200 psi</i> ) | (Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                   | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation              | OB500                                   | BP-AA, SBS-AA                        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -225.0                                       |
| LWC-3.                                | Structural concrete              | Elastizell Range II Lightweight Insulating Concrete ( <i>min. 200 psi</i> ) | (Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                   | Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board   | OB500                                   | BP-AA, SBS-AA, SBS-TA or APP-TA      | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -225.0                                       |
| LWC-4.                                | Structural concrete              | Elastizell Range II Lightweight Insulating Concrete ( <i>min. 200 psi</i> ) | Min. 2.0-inch, min. 1.0 pcf, Insulfoam                                       | OB500                                   | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation              | OB500                                   | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -120.0                                       |
| LWC-5.                                | Structural concrete              | Elastizell Range II Lightweight Insulating Concrete ( <i>min. 200 psi</i> ) | Min. 2-inch Styrofoam Brand Roofmate or Highload 60                          | OB500                                   | Min. 0.25-inch DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                   | BP-AA, SBS-AA, SBS-TA or APP-TA      | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -225.0                                       |

**TABLE 4B: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

 SEE [NOTE 10B](#) FOR VAPOR BARRIER OPTIONS

| System No.            | Deck<br>(Note 1)                                                                            | Lightweight Concrete<br>(Note 14)                                                                 | Anchor Sheet                                                                                                          |                                         |                                                                                            | Base Insulation                                                                                              |                         | Top Insulation                                                   |                         | Roof Cover (Note 15) |                                          |                        | MDP<br>(psf) |
|-----------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------|-------------------------|----------------------|------------------------------------------|------------------------|--------------|
|                       |                                                                                             |                                                                                                   | Type                                                                                                                  | Fastener<br>(Note 11)                   | Attach                                                                                     | Type                                                                                                         | Attach<br>(Notes 6,7,8) | Type                                                             | Attach<br>(Notes 6,7,8) | Base Ply             | Ply                                      | Cap Ply                |              |
| CELCORE (FL2037):     |                                                                                             |                                                                                                   |                                                                                                                       |                                         |                                                                                            |                                                                                                              |                         |                                                                  |                         |                      |                                          |                        |              |
| CONVENTIONAL SYSTEMS: |                                                                                             |                                                                                                   |                                                                                                                       |                                         |                                                                                            |                                                                                                              |                         |                                                                  |                         |                      |                                          |                        |              |
| LWC-6.                | Min. 22 ga. type B, Grade 33 vented steel; 5-ft spans or min. 2,500 psi structural concrete | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7 in.) | 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two equally spaced, staggered center rows | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | Hot asphalt             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | Hot asphalt             | BP-AA, SBS-AA        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -75.0        |

**TABLE 4B: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

SEE [NOTE 10](#) FOR VAPOR BARRIER OPTIONS

| System No.                                         | Deck<br>( <a href="#">Note 1</a> )                                                                               | Lightweight Concrete<br>( <a href="#">Note 14</a> )                                                                                                                                                                                                                                                                                                    | Anchor Sheet                                                                                                        |                                         |                                                                                                      | Base Insulation                                                                                              |                                           | Top Insulation                                                                                                                                                                                                       |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                          |                        | MDP<br>(psf) |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|------------------------------------------|------------------------|--------------|
|                                                    |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                        | Type                                                                                                                | Fastener<br>( <a href="#">Note 11</a> ) | Attach                                                                                               | Type                                                                                                         | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                                                                                                                                 | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                      | Cap Ply                |              |
| LWC-7.                                             | Min. 22 ga. type B, Grade 33 vented steel; 5-ft spans or min. 2,500 psi structural concrete                      | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat                                                                                                                                                                                                                                                      | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7 in.) | 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two equally spaced, staggered center rows           | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | Hot asphalt                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                    | Hot asphalt                               | BP-AA, SBS-AA, SBS-TA, APP-TA          | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-AA, SBS-TA, APP-TA | -75.0        |
| <b>VENTING SYSTEMS:</b>                            |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                     |                                         |                                                                                                      |                                                                                                              |                                           |                                                                                                                                                                                                                      |                                           |                                        |                                          |                        |              |
| LWC-8.                                             | Min. 22 ga. type B, Grade 33 vented steel; 5-ft spans or min. 2,500 psi structural concrete                      | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat                                                                                                                                                                                                                                                      | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7 in.) | 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two equally spaced, staggered center rows           | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | Hot asphalt                               | (Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                           | Hot asphalt                               | BP-LL                                  | BP-AA, SBS-AA                            | SBS-AA, SBS-TA, APP-TA | -75.0*       |
| <b>PRE-EXISTENT CELLULAR LIGHTWEIGHT CONCRETE:</b> |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                     |                                         |                                                                                                      |                                                                                                              |                                           |                                                                                                                                                                                                                      |                                           |                                        |                                          |                        |              |
| <b>COLD-APPLIED SYSTEMS:</b>                       |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                     |                                         |                                                                                                      |                                                                                                              |                                           |                                                                                                                                                                                                                      |                                           |                                        |                                          |                        |              |
| LWC-9.                                             | Min. 22 ga. type BV, Grade 40 steel; 6 ft spans, 5/8" puddle welds 6" o.c. or min. 2,500 psi structural concrete | Min. 300 psi, min. 2-inch thick, pre-existent cellular lightweight insulating concrete                                                                                                                                                                                                                                                                 | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet or Ruberoid 20                                                        | Drill-Tec Locking Impact Nail (1.4")    | 6-inch o.c. at the 3-inch wide laps and 6-inch o.c. at two (2) equally spaced, staggered center rows | Min. 2-inch EnergyGuard Polyiso Insulation                                                                   | OB500                                     | (Optional) Additional layer(s) base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | OB500                                     | SBS-CA1                                | (Optional) SBS-CA1                       | SBS-CA1                | -52.5        |
|                                                    | Note:                                                                                                            | Fastener withdrawal testing per <a href="#">Note 11</a> :<br>Average Withdrawal Resistance per ANSI/SPRI FX-1: Drill-Tec Locking Impact Nail (1.4"): min. 125 lbf or Drill-Tec Base Sheet Fastener (1.7"): min. 72 lbf<br>Or MCRF per TAS 105: Drill-Tec Locking Impact Nail (1.4"): min. 120 lbf or Drill-Tec Base Sheet Fastener (1.7"): min. 57 lbf |                                                                                                                     |                                         |                                                                                                      |                                                                                                              |                                           |                                                                                                                                                                                                                      |                                           |                                        |                                          |                        |              |

**TABLE 4c: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

SEE [NOTE 10A](#) FOR VAPOR BARRIER OPTIONS

| System No.                       | Deck<br>( <a href="#">Note 1</a> )                                                          | Lightweight Concrete<br>( <a href="#">Note 14</a> )                                               | Base Sheet                                                                                                                 |                                                                                      |                                                                                                           | Roof Cover ( <a href="#">Note 15</a> ) |                          | <a href="#">MDP (psf)</a> |
|----------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------|---------------------------|
|                                  |                                                                                             |                                                                                                   | Type                                                                                                                       | Fastener ( <a href="#">Note 11</a> )                                                 | Attachment                                                                                                | Base Ply                               | Cap Ply                  |                           |
| CELCORE (FL2037):                |                                                                                             |                                                                                                   |                                                                                                                            |                                                                                      |                                                                                                           |                                        |                          |                           |
| CONVENTIONAL SYSTEMS:            |                                                                                             |                                                                                                   |                                                                                                                            |                                                                                      |                                                                                                           |                                        |                          |                           |
| LWC-10.                          | Min. 22 ga. type B, Grade 33 vented steel; 6 ft spans or min. 2,500 psi structural concrete | Celcore Cellular Concrete (min. 200 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat | GAFLAS Stratavent Nailable Venting Base Sheet                                                                              | Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.) | 9-inch o.c. at min. 2-inch laps and 18-inch o.c. in two (2), equally spaced, staggered center rows        | SBS-TA                                 | SBS-TA                   | -45.0                     |
| LWC-11.                          | Min. 22 ga. type B, Grade 33 vented steel; 5-ft spans or min. 2,500 psi structural concrete | Celcore Cellular Concrete (min. 200 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat | Ruberoid Mop Granule, Tri-Ply SBS Granule Cap Sheet (granules down)                                                        | Drill-Tec Locking Impact Nail                                                        | 7-inch o.c. at min. 4-inch side laps and 7-inch o.c. in two, equally spaced staggered center rows.        | BP-AA or SBS-AA                        | SBS-AA, SBS-TA or APP-TA | -75.0                     |
| LWC-12.                          | Min. 22 ga. type B, Grade 33 vented steel; 5-ft spans or min. 2,500 psi structural concrete | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7)                                                  | 7-inch o.c. at min. 3-inch side laps and 7-inch o.c. in two, equally spaced staggered center rows.        | Two plies BP-AA or SBS-AA              | SBS-AA                   | -75.0                     |
| COLD-APPLIED SYSTEMS:            |                                                                                             |                                                                                                   |                                                                                                                            |                                                                                      |                                                                                                           |                                        |                          |                           |
| LWC-13.                          | Min. 22 ga., type B, Grade 33 steel; 6 ft spans or min. 2,500 psi structural concrete       | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.) | 12-inch o.c. at min. 2-inch side laps and 12-inch o.c. at three (3) equally spaced staggered center rows. | SBS-CA                                 | SBS-CA                   | -45.0                     |
| LWC-14.                          | Min. 22 ga., type B, Grade 33 steel; 6 ft spans or min. 2,500 psi structural concrete       | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.) | 9-inch o.c. at min. 2-inch laps and 18-inch o.c. in two (2), equally spaced, staggered center rows        | SBS-CA                                 | SBS-CA                   | -45.0                     |
| LWC-15.                          | Min. 22 ga., type B, Grade 33 steel; 5 ft spans or min. 2,500 psi structural concrete       | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.) | 7-inch o.c. at min. 3-inch side laps and 7-inch o.c. at two (2) equally spaced staggered center rows.     | SBS-CA                                 | SBS-CA                   | -75.0                     |
| HYBRID HOT/COLD-APPLIED SYSTEMS: |                                                                                             |                                                                                                   |                                                                                                                            |                                                                                      |                                                                                                           |                                        |                          |                           |
| LWC-16.                          | Min. 22 ga., type B, Grade 33 steel; 6 ft spans or min. 2,500 psi structural concrete       | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7)                                                  | 12-inch o.c. at min. 2-inch side laps and 12-inch o.c. at three equally spaced staggered center rows.     | BP-AA or SBS-AA                        | SBS-CA1                  | -45.0                     |

**TABLE 4c: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

SEE [NOTE 10A](#) FOR VAPOR BARRIER OPTIONS

| System No.                   | Deck<br>( <a href="#">Note 1</a> )                                                          | Lightweight Concrete<br>( <a href="#">Note 14</a> )                                                                         | Base Sheet                                                                                                                 |                                                                                      |                                                                                                    | Roof Cover ( <a href="#">Note 15</a> )     |                          | MDP<br>(psf) |
|------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|--------------|
|                              |                                                                                             |                                                                                                                             | Type                                                                                                                       | Fastener ( <a href="#">Note 11</a> )                                                 | Attachment                                                                                         | Base Ply                                   | Cap Ply                  |              |
| LWC-17.                      | Min. 22 ga., type B, Grade 33 steel; 6 ft spans or min. 2,500 psi structural concrete       | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat                           | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7)                                                  | 9-inch o.c. at min. 2-inch side laps and 9-inch o.c. at two equally spaced staggered center rows.  | BP-AA or SBS-AA                            | SBS-CA1                  | -45.0        |
| LWC-18.                      | Min. 22 ga., type B, Grade 33 steel; 6 ft spans or min. 2,500 psi structural concrete       | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat                           | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7)                                                  | 7.5-inch o.c. at min. 2-inch side laps and 7.5-inch o.c. at one center row.                        | BP-AA or SBS-AA                            | SBS-CA1                  | -45.0        |
| LWC-19.                      | Min. 22 ga., type B, Grade 33 steel; 6 ft spans or min. 2,500 psi structural concrete       | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat                           | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7)                                                  | 9-inch o.c. at min. 3-inch side laps and 18-inch o.c. at two equally spaced staggered center rows. | BP-AA or SBS-AA                            | SBS-CA1                  | -45.0        |
| LWC-20.                      | Min. 22 ga., type B, Grade 33 steel; 5 ft spans or min. 2,500 psi structural concrete       | Celcore Cellular Concrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat                           | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7)                                                  | 7-inch o.c. at min. 3-inch side laps and 7-inch o.c. at two equally spaced staggered center rows.  | BP-AA or SBS-AA                            | SBS-CA1                  | -75.0        |
| <b>ELASTIZELL (FL4994):</b>  |                                                                                             |                                                                                                                             |                                                                                                                            |                                                                                      |                                                                                                    |                                            |                          |              |
| LWC-21.                      | Min. 22 ga. type B, Grade 33 vented steel; 6 ft spans or min. 2,500 psi structural concrete | Elastizell Range II Lightweight Insulating Concrete (min. 200 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat | GAFLAS Stratavent Nailable Venting Base Sheet                                                                              | Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.) | 9-inch o.c. at min. 2-inch laps and 18-inch o.c. in two (2), equally spaced, staggered center rows | SBS-TA                                     | SBS-TA                   | -45.0        |
| <b>MEARLCRETE (FL13492):</b> |                                                                                             |                                                                                                                             |                                                                                                                            |                                                                                      |                                                                                                    |                                            |                          |              |
| <b>CONVENTIONAL SYSTEMS:</b> |                                                                                             |                                                                                                                             |                                                                                                                            |                                                                                      |                                                                                                    |                                            |                          |              |
| LWC-22.                      | Min. 22 ga. type B, Grade 33 vented steel; 6 ft spans or min. 2,500 psi structural concrete | Mearlcrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat                                          | Ruberoid Mop Plus Granule (granules down)                                                                                  | Drill-Tec Locking Impact Nail                                                        | 6-inch o.c. at min. 4-inch side laps and 9-inch o.c. in two, equally spaced staggered center rows. | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -45.0        |
| LWC-23.                      | Min. 22 ga. type B, Grade 33 vented steel; 6 ft spans or min. 2,500 psi structural concrete | Mearlcrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat                                          | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.2 in.)                                              | 7.5-inch o.c. at min. 4-inch laps and 12-inch o.c. in three, equally spaced, staggered center rows | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -52.5        |

**TABLE 4c: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

SEE [NOTE 10A](#) FOR VAPOR BARRIER OPTIONS

| System No.                                         | Deck<br>( <a href="#">Note 1</a> )                                                          | Lightweight Concrete<br>( <a href="#">Note 14</a> )                                                                                                                               | Base Sheet                                                                                                                 |                                                                                                                                                                                                                                                              |                                                                                                                 | Roof Cover ( <a href="#">Note 15</a> )     |                                                    | MDP<br>(psf) |
|----------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------|--------------|
|                                                    |                                                                                             |                                                                                                                                                                                   | Type                                                                                                                       | Fastener ( <a href="#">Note 11</a> )                                                                                                                                                                                                                         | Attachment                                                                                                      | Base Ply                                   | Cap Ply                                            |              |
| LWC-24.                                            | Min. 22 ga. type B, Grade 33 vented steel; 6 ft spans or min. 2,500 psi structural concrete | Mearlcrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat                                                                                                | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)                                                                                                                                                                         | 7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two (2), equally spaced, staggered center rows               | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA                           | -52.5        |
| LWC-25.                                            | Structural concrete                                                                         | Mearlcrete (min. 300 psi) with optional min. 1 pcf Corrugated EPS Holey Board and min. 2-inch thick top coat                                                                      | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet                               | Drill-Tec Base Sheet Fastener (1.7)                                                                                                                                                                                                                          | 7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows                   | SBS-TA                                     | SBS-TA                                             | -52.5        |
| LWC-26.                                            | Min. 22 ga. type B, Grade 33 vented steel; 6 ft spans or min. 2,500 psi structural concrete | Mearlcrete (min. 742 psi) min. 2-inch thick top coat                                                                                                                              | GAFLAS FlexPly 6, GAFLAS FlexPly 6 M                                                                                       | Drill-Tec Base Sheet Fastener (1.2)                                                                                                                                                                                                                          | 7-inch o.c. at min. 4-inch side laps and 7-inch o.c. in two, equally spaced staggered center rows.              | (Optional) BP-AA, SBS-AA                   | SBS-AA (polyester reinforced, D6164 only)          | -52.5        |
| <b>SELF-ADHERING BASE PLY:</b>                     |                                                                                             |                                                                                                                                                                                   |                                                                                                                            |                                                                                                                                                                                                                                                              |                                                                                                                 |                                            |                                                    |              |
| LWC-27.                                            | Min. 22 ga. type B, Grade 33 vented steel; 6 ft spans or min. 2,500 psi structural concrete | Mearlcrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat                                                                                                | StormSafe Anchor Sheet                                                                                                     | Drill-Tec Base Sheet Fastener (1.2 in.)                                                                                                                                                                                                                      | 7.5-inch o.c. at min. 4-inch laps and 12-inch o.c. in three, equally spaced, staggered center rows              | (Optional) SBS-SA                          | SBS-SA                                             | -52.5        |
| <b>PRE-EXISTENT CELLULAR LIGHTWEIGHT CONCRETE:</b> |                                                                                             |                                                                                                                                                                                   |                                                                                                                            |                                                                                                                                                                                                                                                              |                                                                                                                 |                                            |                                                    |              |
| <b>CONVENTIONAL SYSTEMS:</b>                       |                                                                                             |                                                                                                                                                                                   |                                                                                                                            |                                                                                                                                                                                                                                                              |                                                                                                                 |                                            |                                                    |              |
| LWC-28.                                            | Min. 22 ga. type BV, Grade 33 steel; 6 ft spans or min. 2,500 psi structural concrete       | Min 200 psi pre-existent cellular LWC                                                                                                                                             | Ruberoid Mop Smooth                                                                                                        | Drill-Tec XHD Fastener with Drill-Tec Eyehook AccuSeam Plate, Drill-Tec 2-3/8 in. Barbed XHD Plate, Dekfast Galvalume Steel Round 2-3/8" 20-Ga. Barbed Plate or Trufast 2.4" Barbed Metal Seam Plate (Withdrawal per <a href="#">Note 11</a> $\geq 345$ lbf) | <u>Fasten through LWC to structural deck:</u> 18-inch o.c. within 5-inch wide, torched or heat-welded side laps | (Optional) SBS-TA                          | SBS-TA                                             | -37.5        |
| LWC-29.                                            | Min. 22 ga. type BV, Grade 33 steel; 6 ft spans or min. 2,500 psi structural concrete       | Min 200 psi pre-existent cellular LWC                                                                                                                                             | Ruberoid HW Smooth                                                                                                         | Drill-Tec XHD Fastener with Drill-Tec 2-3/8 in. Barbed XHD Plate or Trufast 2.4" Barbed Metal Seam Plate (Withdrawal per <a href="#">Note 11</a> $\geq 345$ lbf)                                                                                             | <u>Fasten through LWC to structural deck:</u> 18-inch o.c. within 5-inch wide, torched or heat-welded side laps | (Optional) SBS-TA                          | SBS-TA                                             | -37.5        |
| LWC-30.                                            | Existing min. 22 ga. type B, Grade 33 steel                                                 | Re-Roof Only: Min. 300 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> Withdrawal resistance min. 88 lbf per <a href="#">Note 11</a> . | GAFLAS #75 Base Sheet, GAFLAS #80 Ultima Base Sheet or GAFLAS Stratavent Nailable Venting Base Sheet                       | Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)                                                                                                                                                                         | 7.5-inch o.c. at min. 2-inch side laps and 7.5-inch o.c. in one (1) staggered center row.                       | Ruberoid HW 30 Smooth, torch-applied       | Ruberoid EnergyCap HW 30 Granule FR, torch-applied | -45.0        |

**TABLE 4c: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

SEE [NOTE 10A](#) FOR VAPOR BARRIER OPTIONS

| System No. | Deck<br>( <a href="#">Note 1</a> )                                                            | Lightweight Concrete<br>( <a href="#">Note 14</a> )                                                                                                                                      | Base Sheet                                                                                                                                     |                                                                                                                                                                                                                                                                  |                                                                                                                                               | Roof Cover ( <a href="#">Note 15</a> ) |                                                    | MDP<br>(psf) |
|------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------|--------------|
|            |                                                                                               |                                                                                                                                                                                          | Type                                                                                                                                           | Fastener ( <a href="#">Note 11</a> )                                                                                                                                                                                                                             | Attachment                                                                                                                                    | Base Ply                               | Cap Ply                                            |              |
| LWC-31.    | Existing min. 22 ga. type B, Grade 33 steel                                                   | Re-Roof Only: Min. 300 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> <i>Withdrawal resistance min. 105 lbf per <a href="#">Note 11</a>.</i> | GAFLAS #75 Base Sheet, GAFLAS #80 Ultima Base Sheet or GAFLAS Stratavent Nailable Venting Base Sheet                                           | Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)                                                                                                                                                                             | 9-inch o.c. at min. 2-inch side laps and 18-inch o.c. in two (2), equally spaced staggered center rows.                                       | Ruberoid HW 30 Smooth, torch-applied   | Ruberoid EnergyCap HW 30 Granule FR, torch-applied | -45.0        |
| LWC-32.    | Min. 22 ga. type B, Grade 33 steel; 6'-6" spans or min. 2,500 psi structural concrete         | Min 250-300 psi pre-existent cellular LWC with min. 1 pcf EPS board and min. 2-inch thick top coat                                                                                       | Ruberoid Mop Smooth                                                                                                                            | #14 HD Drill-Tec fasteners and 2" Drill-Tec Double-Barbed Round Steel Plate                                                                                                                                                                                      | <u>Fasten through LWC to structural deck:</u> 6-inch o.c. within 4-inch heat welded side laps                                                 | (Optional) SBS-TA                      | SBS-TA                                             | -52.5        |
| LWC-33.    | Min. 22 ga. type BV, Grade 33 steel; 6 ft spans, or min. 2,500 psi structural concrete        | Min. 340 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> <i>Withdrawal resistance min. 60 lbf per <a href="#">Note 11</a>.</i>                | GAFLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFLAS #80 Ultima Base Sheet, GAFLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Drill-Tec Base Sheet Fastener (1.7 in.), Drill-Tec Base Sheet Fastener E (1.7 in.) or Drill-Tec Locking Impact Nail                                                                                                                                              | 7-inch o.c. at min. 4-inch side laps and 7-inch o.c. in two (2), equally spaced staggered center rows.                                        | SBS-AA, SBS-TA                         | SBS-AA, SBS-TA, APP-TA                             | -52.5        |
| LWC-34.    | Min. 22 ga. type BV, Grade 33 steel; 6 ft spans or min. 2,500 psi structural concrete         | Min 200 psi pre-existent cellular LWC                                                                                                                                                    | Ruberoid Mop Smooth                                                                                                                            | Drill-Tec XHD Fastener with Drill-Tec Eyehook AccuSeam Plate, Drill-Tec 2-3/8 in. Barbed XHD Plate, Dekfast Galvalume Steel Round 2-3/8" 20-Ga. Barbed Plate or Trufast 2.4" Barbed Metal Seam Plate ( <b>Withdrawal per <a href="#">Note 11</a> ≥ 345 lbf</b> ) | <u>Fasten through LWC to structural deck:</u> 12-inch o.c. within 5-inch wide, torched or heat-welded side laps                               | (Optional) SBS-TA                      | SBS-TA                                             | -60.0        |
| LWC-35.    | Min. 22 ga. type BV, Grade 33 steel; 6 ft spans or min. 2,500 psi structural concrete         | Min 200 psi pre-existent cellular LWC                                                                                                                                                    | Ruberoid HW Smooth                                                                                                                             | Drill-Tec XHD Fastener with Drill-Tec 2-3/8 in. Barbed XHD Plate or Trufast 2.4" Barbed Metal Seam Plate ( <b>Withdrawal per <a href="#">Note 11</a> ≥ 345 lbf</b> )                                                                                             | <u>Fasten through LWC to structural deck:</u> 12-inch o.c. within 5-inch wide, torched or heat-welded side laps                               | (Optional) SBS-TA                      | SBS-TA                                             | -60.0        |
| LWC-36.    | Min. 22 ga. type B, Grade 33 steel; 6 ft spans or min. 2,500 psi structural concrete          | Min 250-300 psi pre-existent cellular LWC with min. 1 pcf EPS board and min. 2-inch thick top coat                                                                                       | GAFLAS FlexPly 6, GAFLAS FlexPly 6 M                                                                                                           | Note 2                                                                                                                                                                                                                                                           | <u>Fasten through LWC to structural deck:</u> 12-inch o.c. at 4-inch side laps and 12-inch o.c. in two, equally spaced staggered center rows. | (Optional) BP-AA, SBS-AA               | SBS-AA, SBS-TA                                     | -67.5        |
| LWC-37.    | Existing min. 22 ga. type B, Grade 33 steel                                                   | Re-Roof Only: Min. 300 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> <i>Withdrawal resistance min. 88 lbf per <a href="#">Note 11</a>.</i>  | GAFLAS #75 Base Sheet, GAFLAS #80 Ultima Base Sheet or GAFLAS Stratavent Nailable Venting Base Sheet                                           | Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)                                                                                                                                                                             | 7-inch o.c. at min. 3-inch side laps and 7-inch o.c. in two (2), equally spaced staggered center rows.                                        | Ruberoid HW 30 Smooth, torch-applied   | Ruberoid EnergyCap HW 30 Granule FR, torch-applied | -75.0        |
| LWC-38.    | Min. 22 ga., type BV, Grade 40 steel at max. 6 ft spans or min. 2,500 psi structural concrete | Re-Roof Only: Min. 210 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> <i>Withdrawal resistance min. 95 lbf per <a href="#">Note 11</a>.</i>  | GAFLAS #80 Ultima Base Sheet or GAFLAS Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth                                            | Drill-Tec Base Sheet Fastener (1.7 in.), Drill-Tec Base Sheet Fastener E (1.7 in.) or Drill-Tec Locking Impact Nail                                                                                                                                              | 7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows                                                 | SBS-TA                                 | SBS-TA, APP-TA                                     | -82.5        |

**TABLE 4c: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

SEE [NOTE 15A](#) FOR VAPOR BARRIER OPTIONS

| System No. | Deck<br>( <a href="#">Note 1</a> )                                                   | Lightweight Concrete<br>( <a href="#">Note 14</a> )                                                     | Base Sheet                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                                    | MDP<br>(psf) |
|------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------|--------------|
|            |                                                                                      |                                                                                                         | Type                                                                          | Fastener ( <a href="#">Note 11</a> )                                                                                                                                                                                                                                                                                                                                                                                                | Attachment                                                                                                                                                | Base Ply                               | Cap Ply                                            |              |
| LWC-39.    | Existing min. 22 ga. type B, Grade 33 steel                                          | Re-Roof Only: Min. 300 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete     | GAFLAS #75 Base Sheet                                                         | Drill-Tec #12 Fastener or Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate or Drill-Tec #12 DF Fastener or Drill-Tec #14 DF Fastener with Drill-Tec 3" DF Steel Insulation Plate                                                                                                                                                                                                                                       | <u>Fasten through LWC to structural deck:</u> 6-inch o.c. at min. 3.5-inch side laps and 12-inch o.c. in three (3), equally spaced staggered center rows. | Ruberoid HW 30 Smooth, torch-applied   | Ruberoid EnergyCap HW 30 Granule FR, torch-applied | -82.5        |
| LWC-40.    | Existing min. 22 ga. type B, Grade 33 steel                                          | Re-Roof Only: Min. 300 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete     | GAFLAS #80 Ultima Base Sheet or GAFLAS Stratavent Nailable Venting Base Sheet | Drill-Tec #12 Fastener, Drill-Tec #12 DP Fastener, Drill-Tec #14 Fastener or Drill-Tec #14 HD Fastener with Drill-Tec 3" Steel Plate, Drill-Tec 3" Flat Steel Plate, Drill-Tec 3" Standard Steel Plate, Drill-Tec AccuTrac Recessed Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec 3" Recessed Steel Plate or Drill-Tec #12 DF Fastener or Drill-Tec #14 DF Fastener with Drill-Tec 3" DF Steel Insulation Plate | <u>Fasten through LWC to structural deck:</u> 6-inch o.c. at min. 3.5-inch side laps and 12-inch o.c. in three (3), equally spaced staggered center rows. | Ruberoid HW 30 Smooth, torch-applied   | Ruberoid EnergyCap HW 30 Granule FR, torch-applied | -82.5        |
| LWC-41.    | Min. 22 ga. type B, Grade 33 steel; 5-ft spans or min. 2,500 psi structural concrete | Min 250 psi pre-existent cellular LWC with optional min. 1 pcf EPS board and min. 2-inch thick top coat | Ruberoid HW Granule (granules down)                                           | Note 2                                                                                                                                                                                                                                                                                                                                                                                                                              | <u>Fasten through LWC to structural deck:</u> 12-inch o.c. at 4-inch side laps and 12-inch o.c. in two, equally spaced staggered center rows.             | (Optional) SBS-TA                      | SBS-TA (polyester, D6164 only)                     | -97.5        |
| LWC-42.    | Existing min. 22 ga. type B, Grade 33 steel                                          | Re-Roof Only: Min. 300 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete     | GAFLAS #80 Ultima Base Sheet                                                  | Drill-Tec #12 DF Fastener or Drill-Tec #14 DF Fastener with Drill-Tec 3" DF Steel Insulation Plate                                                                                                                                                                                                                                                                                                                                  | <u>Fasten through LWC to structural deck:</u> 6-inch o.c. at min. 3.5-inch side laps and 6-inch o.c. in three (3), equally spaced staggered center rows.  | Ruberoid HW 30 Smooth, torch-applied   | Ruberoid EnergyCap HW 30 Granule FR, torch-applied | -142.5       |
| LWC-43.    | Existing min. 22 ga. type B, Grade 33 steel                                          | Re-Roof Only: Min. 300 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete     | GAFLAS #80 Ultima Base Sheet                                                  | Drill-Tec #12 Fastener or Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate                                                                                                                                                                                                                                                                         | <u>Fasten through LWC to structural deck:</u> 6-inch o.c. at min. 3.5-inch side laps and 6-inch o.c. in three (3), equally spaced staggered center rows.  | Ruberoid HW 30 Smooth, torch-applied   | Ruberoid EnergyCap HW 30 Granule FR, torch-applied | -150.0       |

**TABLE 4D: LIGHTWEIGHT CONCRETE OVER STEEL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**
**SYSTEM TYPE E-1: THERMAL BARRIER TO DECK, VAPOR BARRIER TO THERMAL BARRIER, LWC TO VAPOR BARRIER, NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

| System No.                                  | Deck<br>( <a href="#">Note 1</a> )              | Thermal Barrier                                                  |                                                                   |               | Vapor Barrier<br>( <a href="#">Note 15</a> ) | Lightweight Concrete<br>( <a href="#">Note 14</a> )                                                                                                                | Base Sheet                                                                                                                                        |                                                                                                                     |                                                                                                   | Roof Cover ( <a href="#">Note 15</a> )     |                          | MDP<br>(psf) |
|---------------------------------------------|-------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------|---------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|--------------|
|                                             |                                                 | Type                                                             | Fasten<br>( <a href="#">Note 2</a> ,<br><a href="#">Note 11</a> ) | Attach        |                                              |                                                                                                                                                                    | Base                                                                                                                                              | Fasten                                                                                                              | Spacing                                                                                           | Base Ply                                   | Cap                      |              |
| MEARLCRETE (FL13492):                       |                                                 |                                                                  |                                                                   |               |                                              |                                                                                                                                                                    |                                                                                                                                                   |                                                                                                                     |                                                                                                   |                                            |                          |              |
| LWC-44.                                     | Min. 22 ga. type BV, Grade 33 steel; 6 ft spans | Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2                                                            | 1 per 1.6 ft² | VB-SBS-TA                                    | Min. 300 psi, min. 2-inch thick Mearlcrete                                                                                                                         | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet                     | Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)                                | 7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two (2), equally spaced, staggered center rows | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -52.5        |
| PRE-EXISTENT CELLULAR LIGHTWEIGHT CONCRETE: |                                                 |                                                                  |                                                                   |               |                                              |                                                                                                                                                                    |                                                                                                                                                   |                                                                                                                     |                                                                                                   |                                            |                          |              |
| LWC-45.                                     | Min. 22 ga. type BV, Grade 33 steel; 6 ft spans | Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Note 2                                                            | 1 per 1.6 ft² | VB-SBS-TA                                    | Min. 340 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note: Withdrawal resistance min. 60 lbf per <a href="#">Note 11</a>.</b> | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | Drill-Tec Base Sheet Fastener (1.7 in.), Drill-Tec Base Sheet Fastener E (1.7 in.) or Drill-Tec Locking Impact Nail | 7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two (2), equally spaced staggered center rows. | SBS-AA, SBS-TA                             | SBS-AA, SBS-TA, APP-TA   | -52.5        |

**TABLE 4E: LIGHTWEIGHT INSULATING CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**
**SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

 SEE [NOTE 15A](#) FOR VAPOR BARRIER OPTIONS

| System No.           | Deck<br><a href="#">(Note 1)</a> | Lightweight Concrete<br><a href="#">(Note 14)</a>           | Primer                                        | Roof Cover <a href="#">(Note 15)</a> |      |         | <a href="#">MDP</a><br><a href="#">(psf)</a> |
|----------------------|----------------------------------|-------------------------------------------------------------|-----------------------------------------------|--------------------------------------|------|---------|----------------------------------------------|
|                      |                                  |                                                             |                                               | Base Ply                             | Ply  | Cap Ply |                                              |
| CELCORE (FL2037):    |                                  |                                                             |                                               |                                      |      |         |                                              |
| LWC-46.              | Structural concrete              | Min. 250-300 psi Celcore Cellular Concrete                  | Matrix 307 Premium Asphalt Primer or ASTM D41 | SBS-SA                               | None | SBS-TA  | -52.5                                        |
| LWC-47.              | Structural concrete              | Min. 250-300 psi Celcore Cellular Concrete                  | TOPCOAT PRECOTE                               | SBS-SA                               | None | SBS-TA  | -100.0                                       |
| ELASTIZELL (FL4994): |                                  |                                                             |                                               |                                      |      |         |                                              |
| LWC-48.              | Structural concrete              | Min. 250-300 psi Elastizell Lightweight Insulating Concrete | Matrix 307 Premium Asphalt Primer or ASTM D41 | SBS-SA                               | None | SBS-SA  | -137.5                                       |

**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

| System No.              | Deck<br>(Notes 1&12)                                | Base Insulation Layer                                                                  |                                               | Top Insulation Layer                                                                                                                                                                                                                  |                                      | Roof Cover <a href="#">(Note 15)</a> |                                                        |                          | <a href="#">MDP<br/>(psf)</a> |
|-------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------------------------|--------------------------|-------------------------------|
|                         |                                                     | Type                                                                                   | Attach <a href="#">(Notes 6,7,8)</a>          | Type                                                                                                                                                                                                                                  | Attach <a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                                                    | Cap Ply                  |                               |
| CONVENTIONAL SYSTEMS:   |                                                     |                                                                                        |                                               |                                                                                                                                                                                                                                       |                                      |                                      |                                                        |                          |                               |
| CWF-1.                  | Existing Tectum (re-roof only)                      | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                           | OB500                                         | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                                                                                                                      | OB500                                | BP-AA, SBS-AA                        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -45.0                         |
| CWF-2.                  | Existing Tectum (re-roof only)                      | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                           | OB500                                         | Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                           | OB500                                | BP-AA, SBS-AA, SBS-TA or APP-TA      | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -45.0                         |
| CWF-3.                  | New or existing (reroof) Min. 2-inch Tectum I Plank | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH or EnergyGuard Ultra        | OB500, 6-inch o.c. to back-side of insulation | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                                     | OB500, 6-inch o.c.                   | BP-AA or SBS-AA                      | (Optional) BP-AA, SBS-AA, SBS-TA                       | SBS-AA, SBS-TA           | -97.5                         |
| CWF-4.                  | New or existing (reroof) Min. 2-inch Tectum I Plank | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH or EnergyGuard Ultra        | OB500, 6-inch o.c. to back-side of insulation | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                                     | OB500, 6-inch o.c.                   | APP-TA                               | (Optional) APP-TA                                      | APP-TA                   | -105.0                        |
| CWF-5.                  | New or existing (reroof) Min. 2-inch Tectum I Plank | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH or EnergyGuard Ultra        | OB500, 6-inch o.c. to back-side of insulation | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                                                       | OB500, 6-inch o.c.                   | SBS-TA                               | (Optional) SBS-TA                                      | SBS-TA                   | -120.0                        |
| CWF-6.                  | New or existing (reroof) Min. 2-inch Tectum I Plank | Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH or EnergyGuard Ultra        | OB500, 6-inch o.c. to back-side of insulation | Min. 0.25-inch DensDeck Prime                                                                                                                                                                                                         | OB500, 6-inch o.c.                   | SBS-TA                               | (Optional) SBS-TA                                      | SBS-TA                   | -127.5                        |
| SELF-ADHERING BASE PLY: |                                                     |                                                                                        |                                               |                                                                                                                                                                                                                                       |                                      |                                      |                                                        |                          |                               |
| CWF-7.                  | Existing Tectum (re-roof only)                      | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                           | OB500                                         | Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                                                                                                           | OB500                                | SBS-SA                               | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -45.0                         |
| CWF-8.                  | New or existing (reroof) Min. 2-inch Tectum I Plank | Min. 1-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation | OB500, 6-inch o.c. to back-side of insulation | (Optional) Additional layer(s), min. 1.5-inch base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Cover Board or EnergyGuard HD Plus Polyiso Cover Board | OB500                                | SBS-SA                               | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -67.5                         |

**TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No.            | Deck<br><a href="#">(Note 1)</a> | Anchor Sheet                                                                                                                                  |                                             |                                                                                              | Base Insulation                            |                                         | Top Insulation                                                                                                      |                                         | Roof Cover <a href="#">(Note 15)</a> |                                          |                  | <a href="#">MDP (psf)</a> |
|-----------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|------------------------------------------|------------------|---------------------------|
|                       |                                  | Type                                                                                                                                          | Fastener<br><a href="#">(Note 11)</a>       | Attach                                                                                       | Type                                       | Attach<br><a href="#">(Notes 6,7,8)</a> | Type                                                                                                                | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                                      | Cap Ply          |                           |
| CONVENTIONAL SYSTEMS: |                                  |                                                                                                                                               |                                             |                                                                                              |                                            |                                         |                                                                                                                     |                                         |                                      |                                          |                  |                           |
| CWF-9.                | Existing Tectum (re-roof only)   | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth, Mop Smooth | Min. 1.8-inch Drill-Tec Locking Impact Nail | 9-inch o.c. at the 3-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows | (Optional) Min. 1-inch EnergyGuard         | Hot asphalt                             | Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                         | Hot asphalt                             | BP-AA, SBS-AA, SBS-TA, APP-TA        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-TA, APP-TA   | -45.0*                    |
| CWF-10.               | Existing Tectum (re-roof only)   | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth, Mop Smooth | Min. 1.8-inch Drill-Tec Locking Impact Nail | 9-inch o.c. at the 3-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows | (Optional) Min. 1-inch EnergyGuard         | Hot asphalt                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                    | Hot asphalt                             | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-TA, APP-TA   | -45.0*                    |
| CWF-11.               | Min. 2-inch Tectum I Plank       | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth, Mop Smooth | Min. 1.8-inch Drill-Tec Locking Impact Nail | 6-inch o.c. at the 3-inch lap and 6-inch o.c. in two, equally spaced, staggered center rows  | Min. 1-inch EnergyGuard Polyiso Insulation | Hot asphalt                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                             | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA                 | SBS-AA           | -60.0                     |
| CWF-12.               | Min. 2-inch Tectum I Plank       | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth, Mop Smooth | Min. 1.8-inch Drill-Tec Locking Impact Nail | 6-inch o.c. at the 3-inch lap and 6-inch o.c. in two, equally spaced, staggered center rows  | Min. 1-inch EnergyGuard Polyiso Insulation | Hot asphalt                             | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                     | Hot asphalt                             | SBS-TA or APP-TA                     | (Optional) SBS-TA or APP-TA              | SBS-TA or APP-TA | -60.0                     |

**TABLE 5c: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

| System No.                       | Deck<br><a href="#">(Note 1)</a> | Base Sheet                                                                                                                                                                                           |                                              |                                                                                              | Roof Cover <a href="#">(Note 15)</a> |                          | MDP<br><a href="#">(psf)</a> |
|----------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------------------|
|                                  |                                  | Type                                                                                                                                                                                                 | Fastener <a href="#">(Note 11)</a>           | Attachment                                                                                   | Base Ply                             | Cap Ply                  |                              |
| CONVENTIONAL SYSTEMS:            |                                  |                                                                                                                                                                                                      |                                              |                                                                                              |                                      |                          |                              |
| CWF-13.                          | Existing Tectum (re-roof only)   | GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet                       | Drill-Tec LD Fastener and Drill-Tec LD Plate | 9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | (Optional) BP-AA, SBS-AA or SBS-TA   | SBS-AA or SBS-TA         | -30.0                        |
| CWF-14.                          | Existing Tectum (re-roof only)   | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth, Mop Smooth                                                        | Min. 1.8-inch Drill-Tec Locking Impact Nail  | 9-inch o.c. at the 3-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows | BP-AA, SBS-AA                        | SBS-AA, SBS-TA or APP-TA | -45.0*                       |
| CWF-15.                          | Existing Tectum (re-roof only)   | Ruberoid 20 Smooth                                                                                                                                                                                   | Drill-Tec LD Fastener and Drill-Tec LD Plate | 9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | (Optional) BP-AA, SBS-AA or SBS-TA   | SBS-AA or SBS-TA         | -60.0                        |
| CWF-16.                          | Existing Tectum (re-roof only)   | Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth                                                                                                                                                         | Drill-Tec LD Fastener and Drill-Tec LD Plate | 9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | (Optional) SBS-TA                    | SBS-TA                   | -60.0                        |
| CWF-17.                          | Existing Tectum (re-roof only)   | GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec LD Fastener and Drill-Tec LD Plate | 7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows  | (Optional) BP-AA, SBS-AA or SBS-TA   | SBS-AA or SBS-TA         | -67.5                        |
| CWF-18.                          | Existing Tectum (re-roof only)   | Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth                                                                                                                                                         | Drill-Tec LD Fastener and Drill-Tec LD Plate | 7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows  | (Optional) SBS-TA                    | SBS-TA                   | -67.5                        |
| CWF-19.                          | Min. 2-inch Tectum I Plank       | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth, Mop Smooth                                                        | Min. 1.8-inch Drill-Tec Locking Impact Nail  | 6-inch o.c. at the 4-inch lap and 6-inch o.c. in two, equally spaced, staggered center rows  | (Optional) SBS-AA or SBS-TA          | SBS-AA or SBS-TA         | -75.0                        |
| HYBRID HOT/COLD-APPLIED SYSTEMS: |                                  |                                                                                                                                                                                                      |                                              |                                                                                              |                                      |                          |                              |
| CWF-20.                          | Existing Tectum (re-roof only)   | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet                                                                        | Min. 1.8-inch Drill-Tec Locking Impact Nail  | 9-inch o.c. at the 2-inch lap and 9-inch o.c. at two, equally spaced, staggered center rows  | BP-AA or SBS-AA                      | SBS-CA1                  | -45.0*                       |

**TABLE 6A: GYPSUM DECKS – REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

| System No.              | Deck<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> ) | Base Insulation Layer                                                      |                                           | Top Insulation Layer                                              |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                           |                | MDP<br>(psf) |
|-------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|----------------------------------------|---------------------------|----------------|--------------|
|                         |                                                                | Type                                                                       | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                       | Cap Ply        |              |
| CONVENTIONAL SYSTEMS:   |                                                                |                                                                            |                                           |                                                                   |                                           |                                        |                           |                |              |
| G-1.                    | Existing gypsum deck                                           | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                     | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -190.0       |
| SELF-ADHERING BASE PLY: |                                                                |                                                                            |                                           |                                                                   |                                           |                                        |                           |                |              |
| G-2.                    | Existing gypsum deck                                           | Min. 1-inch EnergyGuard Polyiso Insulation or EnergyGuard RH               | OB500                                     | (Optional) Additional layer(s) of base insulation                 | OB500                                     | SBS-SA                                 | None                      | SBS-SA         | -87.5        |
| G-3.                    | Existing gypsum deck                                           | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500                                     | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -105.0       |
| G-4.                    | Existing gypsum deck                                           | Min. 1-inch EnergyGuard Polyiso Insulation                                 | OB500                                     | (Optional) Additional layer(s) of base insulation                 | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA | SBS-TA, APP-TA | -147.5       |

**TABLE 6B: GYPSUM DECKS – REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No.            | Deck<br><a href="#">(Note 1)</a> | Anchor Sheet                                                                                                                                  |                                             |                                                                                              | Base Insulation                              |                                         | Top Insulation                                                              |                                         | Roof Cover <a href="#">(Note 15)</a> |                                          |                | <a href="#">MDP (psf)</a> |
|-----------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|------------------------------------------|----------------|---------------------------|
|                       |                                  | Type                                                                                                                                          | Fastener<br><a href="#">(Note 11)</a>       | Attach                                                                                       | Type                                         | Attach<br><a href="#">(Notes 6,7,8)</a> | Type                                                                        | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply                             | Ply                                      | Cap Ply        |                           |
| CONVENTIONAL SYSTEMS: |                                  |                                                                                                                                               |                                             |                                                                                              |                                              |                                         |                                                                             |                                         |                                      |                                          |                |                           |
| G-5.                  | Existing gypsum deck             | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth, Mop Smooth | Min. 1.8-inch Drill-Tec Locking Impact Nail | 9-inch o.c. at the 3-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows | (Optional) Min. 1-inch EnergyGuard           | Hot asphalt                             | Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                             | BP-AA, SBS-AA, SBS-TA, APP-TA        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*                    |
| G-6.                  | Existing gypsum deck             | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth, Mop Smooth | Min. 1.8-inch Drill-Tec Locking Impact Nail | 9-inch o.c. at the 3-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows | (Optional) Min. 1-inch EnergyGuard           | Hot asphalt                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation            | Hot asphalt                             | BP-AA, SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA, APP-TA | SBS-TA, APP-TA | -45.0*                    |
| VENTING SYSTEMS:      |                                  |                                                                                                                                               |                                             |                                                                                              |                                              |                                         |                                                                             |                                         |                                      |                                          |                |                           |
| G-7.                  | Existing gypsum deck             | GAFGLAS Stratavent Nailable Venting Base Sheet                                                                                                | Min. 1.8-inch Drill-Tec Locking Impact Nail | 9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH | Hot asphalt                             | None                                                                        | N/A                                     | BP-LL                                | Two plies SBS-AA                         | SBS-AA         | -45.0*                    |

**TABLE 6C: GYPSUM DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

| System No.                       | Deck<br><a href="#">(Note 1)</a> | Base Sheet                                                                                                                                                                                           |                                              |                                                                                                 | Roof Cover <a href="#">(Note 15)</a>       |                          | MDP<br><a href="#">(psf)</a> |
|----------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|------------------------------|
|                                  |                                  | Type                                                                                                                                                                                                 | Fastener <a href="#">(Note 11)</a>           | Attachment                                                                                      | Base Ply                                   | Cap Ply                  |                              |
| CONVENTIONAL SYSTEMS:            |                                  |                                                                                                                                                                                                      |                                              |                                                                                                 |                                            |                          |                              |
| G-8.                             | Existing gypsum deck             | GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet                       | Drill-Tec LD Fastener and Drill-Tec LD Plate | 9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows    | (Optional) BP-AA, SBS-AA or SBS-TA         | SBS-AA or SBS-TA         | -30.0                        |
| G-9.                             | Existing gypsum deck             | GAFGLAS Stratavent Nailable Venting Base Sheet                                                                                                                                                       | Drill-Tec Locking Impact Nail                | 9-inch o.c. at min. 2-inch laps and 18-inch o.c. in two, equally spaced, staggered center rows  | BP-AA, SBS-AA                              | SBS-AA, SBS-TA or APP-TA | -45.0*                       |
| G-10.                            | Existing gypsum deck             | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet                                                                                                                                                       | Drill-Tec Base Sheet Fastener (1.2 in.)      | 9-inch o.c. at min. 2-inch laps and 18-inch o.c. in two, equally spaced, staggered center rows  | SBS-TA                                     | SBS-TA                   | -45.0*                       |
| G-11.                            | Existing gypsum deck             | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet                                                                      | Drill-Tec Base Sheet Fastener (1.2 in.)      | 9-inch o.c. at min. 2-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows  | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -50.0*                       |
| G-12.                            | Existing gypsum deck             | Ruberoid 20 Smooth                                                                                                                                                                                   | Drill-Tec LD Fastener and Drill-Tec LD Plate | 9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows    | (Optional) BP-AA, SBS-AA or SBS-TA         | SBS-AA or SBS-TA         | -60.0                        |
| G-13.                            | Existing gypsum deck             | Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth                                                                                                                                                         | Drill-Tec LD Fastener and Drill-Tec LD Plate | 9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows    | (Optional) SBS-TA                          | SBS-TA                   | -60.0                        |
| G-14.                            | Existing gypsum deck             | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet                                                                      | Drill-Tec Base Sheet Fastener (1.2 in.)      | 9-inch o.c. at min. 2-inch laps and 9-inch o.c. in three, equally spaced, staggered center rows | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -57.5*                       |
| G-15.                            | Existing gypsum deck             | GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec LD Fastener and Drill-Tec LD Plate | 7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows     | (Optional) BP-AA, SBS-AA or SBS-TA         | SBS-AA or SBS-TA         | -67.5                        |
| G-16.                            | Existing gypsum deck             | Ruberoid HW 20 Smooth, Ruberoid HW 25 Smooth                                                                                                                                                         | Drill-Tec LD Fastener and Drill-Tec LD Plate | 7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows     | (Optional) SBS-TA                          | SBS-TA                   | -67.5                        |
| HYBRID HOT/COLD-APPLIED SYSTEMS: |                                  |                                                                                                                                                                                                      |                                              |                                                                                                 |                                            |                          |                              |
| G-17.                            | Existing gypsum deck             | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet                                                                        | Drill-Tec Locking Impact Nail                | 9-inch o.c. at min. 2-inch laps and 18-inch o.c. at two, equally spaced, staggered center rows  | BP-AA or SBS-AA                            | SBS-CA1                  | -45.0*                       |
| G-18.                            | Existing gypsum deck             | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet                                                                        | Drill-Tec Locking Impact Nail                | 7.5-inch o.c. at min. 2-inch laps and 7.5-inch o.c. at one center rows                          | BP-AA or SBS-AA                            | SBS-CA1                  | -45.0*                       |

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE INSULATION LAYER ONLY)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| System No.                                           | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                    | Base Insulation Layer                                             |                                        | Roof Cover ( <a href="#">Note 15</a> ) |                                                        |                          | MDP<br>(psf) <sup>A</sup> |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------------|--------------------------|---------------------------|
|                                                      |                                                                                                                        | Type                                                              | Attach ( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                                    | Cap Ply                  |                           |
| CONVENTIONAL SYSTEMS WITH BASE INSULATION LAYER ONLY |                                                                                                                        |                                                                   |                                        |                                        |                                                        |                          |                           |
| R-1.                                                 | Existing asphaltic roof cover                                                                                          | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | Hot asphalt                            | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -165.0                    |
| R-2.                                                 | Existing granule surface cap sheet                                                                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                            | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -240.0                    |
| R-3.                                                 | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-M Canister                         | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -240.0                    |
| R-4.                                                 | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF                                 | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -110.0                    |
| R-5.                                                 | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF, 6-inch o.c.                    | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -157.5                    |
| R-6.                                                 | Existing asphaltic roof cover                                                                                          | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-XF                                 | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -180.0                    |
| R-7.                                                 | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF, 4-inch o.c.                    | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -180.0                    |
| R-8.                                                 | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch DensDeck Prime                                     | LRF-XF, 4-inch o.c.                    | SBS-TA                                 | (Optional) SBS-TA                                      | SBS-TA                   | -200.0                    |
| R-9.                                                 | Existing granule surface cap sheet                                                                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF, 6-inch o.c.                    | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -240.0                    |
| R-10.                                                | Existing asphaltic roof cover                                                                                          | Min. 0.25-inch DensDeck Prime                                     | LRF-XF                                 | SBS-TA                                 | (Optional) SBS-TA                                      | SBS-TA                   | -245.0                    |
| R-11.                                                | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | OB500                                  | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -110.0                    |
| R-12.                                                | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                  | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -110.0                    |
| R-13.                                                | Existing asphaltic roof cover                                                                                          | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | OB500                                  | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -120.0                    |
| R-14.                                                | Existing asphaltic roof cover                                                                                          | Min. 0.25-inch DensDeck Prime                                     | OB500                                  | SBS-TA                                 | (Optional) One or more SBS-TA                          | SBS-TA                   | -120.0                    |
| R-15.                                                | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | OB500, 6-inch o.c.                     | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -157.5                    |
| R-16.                                                | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500, 6-inch o.c.                     | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -157.5                    |

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE INSULATION LAYER ONLY)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| System No.                                                    | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                    | Base Insulation Layer                                                                                                           |                                        | Roof Cover ( <a href="#">Note 15</a> ) |                                                        |                          | MDP<br>(psf) <sup>A</sup> |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------------|--------------------------|---------------------------|
|                                                               |                                                                                                                        | Type                                                                                                                            | Attach ( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                                    | Cap Ply                  |                           |
| R-17.                                                         | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                | OB500, 4-inch o.c.                     | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -165.0                    |
| R-18.                                                         | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | OB500, 4-inch o.c.                     | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -200.0                    |
| R-19.                                                         | Existing granule surface cap sheet                                                                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | OB500, 6-inch o.c.                     | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -240.0                    |
| <b>SELF-ADHERING BASE PLY WITH BASE INSULATION LAYER ONLY</b> |                                                                                                                        |                                                                                                                                 |                                        |                                        |                                                        |                          |                           |
| R-20.                                                         | Existing asphaltic roof cover                                                                                          | Min. 1.5-inch EnergyGuard Ultra                                                                                                 | Hot asphalt                            | SBS-SA                                 | (Optional) SBS-SA, SBS-TA, APP-TA                      | SBS-SA, SBS-TA, APP-TA   | -90.0                     |
| R-21.                                                         | Existing asphaltic roof cover                                                                                          | Min. 1.5-inch EnergyGuard RA                                                                                                    | Hot asphalt                            | SBS-SA                                 | (Optional) SBS-SA, SBS-TA, APP-TA                      | SBS-TA, APP-TA           | -217.5                    |
| R-22.                                                         | Existing smooth-surface BUR                                                                                            | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                                 | LRF-M, M-OSFA                          | SBS-SA                                 | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -75.0                     |
| R-23.                                                         | Existing smooth surfaced BUR or granule surface roof cover                                                             | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | LRF-M, M-OSFA                          | SBS-SA                                 | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -75.0                     |
| R-24.                                                         | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                                 | LRF-M                                  | SBS-SA                                 | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -110.0                    |
| R-25.                                                         | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                                 | LRF-M, 6-inch o.c.                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -157.5                    |
| R-26.                                                         | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                                 | LRF-M, 4-inch o.c.                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -200.0                    |
| R-27.                                                         | Existing granule-surface BUR or modified bitumen or smooth-surface SBS modified bitumen                                | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                                 | LRF-M, M-OSFA                          | SBS-SA                                 | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -225.0                    |
| R-28.                                                         | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | LRF-M Canister                         | SBS-SA                                 | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -137.5                    |
| R-29.                                                         | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard RA or EnergyGuard RH                                                                                  | LRF-M Canister                         | SBS-SA                                 | (Optional) SBS-SA, SBS-TA, APP-TA                      | SBS-TA, APP-TA           | -217.5                    |
| R-30.                                                         | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                                                    | LRF-M Canister                         | SBS-SA                                 | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -232.5                    |

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE INSULATION LAYER ONLY)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| System No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                    | Base Insulation Layer                                                                                                                                                               |                                        | Roof Cover ( <a href="#">Note 15</a> ) |                                   |                  | MDP<br>(psf) <sup>A</sup> |
|------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|-----------------------------------|------------------|---------------------------|
|            |                                                                                                                        | Type                                                                                                                                                                                | Attach ( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                               | Cap Ply          |                           |
| R-31.      | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer                                                                    | LRF-M Canister                         | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA | -285.0                    |
| R-32.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard RA                                                                                                                                                        | LRF-XF                                 | SBS-SA                                 | (Optional) SBS-SA, SBS-TA, APP-TA | SBS-TA, APP-TA   | -110.0                    |
| R-33.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                  | LRF-XF                                 | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA | -110.0                    |
| R-34.      | Existing asphaltic roof cover                                                                                          | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                     | LRF-XF                                 | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA | -120.0                    |
| R-35.      | Existing asphaltic roof cover                                                                                          | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer                                                                    | LRF-XF                                 | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA | -120.0                    |
| R-36.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                     | LRF-XF, 6-inch o.c.                    | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA | -137.5                    |
| R-37.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard RA                                                                                                                                                        | LRF-XF, 6-inch o.c.                    | SBS-SA                                 | (Optional) SBS-SA, SBS-TA, APP-TA | SBS-TA, APP-TA   | -157.5                    |
| R-38.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch DensDeck primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer                                                                                            | LRF-XF, 6-inch o.c.                    | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA | -157.5                    |
| R-39.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer | LRF-XF, 6-inch o.c.                    | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA | -157.5                    |
| R-40.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer | LRF-XF, 4-inch o.c.                    | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA | -180.0                    |
| R-41.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard RA                                                                                                                                                        | LRF-XF, 4-inch o.c.                    | SBS-SA                                 | (Optional) SBS-SA, SBS-TA, APP-TA | SBS-TA, APP-TA   | -200.0                    |
| R-42.      | Existing asphaltic roof cover                                                                                          | Min. 1.5-inch EnergyGuard RA                                                                                                                                                        | LRF-XF                                 | SBS-SA                                 | (Optional) SBS-SA, SBS-TA, APP-TA | SBS-TA, APP-TA   | -217.5                    |
| R-43.      | Existing smooth- or granule-surface BUR or modified bitumen                                                            | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                                                                                     | LRF-XF                                 | SBS-SA                                 | (Optional) SBS-TA, APP-TA         | SBS-TA, APP-TA   | -225.0                    |
| R-44.      | Existing smooth surfaced BUR / APP modified bitumen or granule surface roof cover over structural concrete deck        | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board                                                     | OB500                                  | SBS-SA                                 | (Optional) SBS-TA or APP-TA       | SBS-TA or APP-TA | -97.5                     |

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE INSULATION LAYER ONLY)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| System No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                       | Base Insulation Layer                                                                                                                                                               |                                        | Roof Cover ( <a href="#">Note 15</a> ) |                             |                  | MDP<br>(psf) <sup>A</sup> |
|------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|-----------------------------|------------------|---------------------------|
|            |                                                                                                           | Type                                                                                                                                                                                | Attach ( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                         | Cap Ply          |                           |
| R-45.      | Existing asphaltic roof cover or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                                                                     | OB500, 6-inch o.c.                     | SBS-SA                                 | (Optional) SBS-SA           | SBS-SA           | -110.0                    |
| R-46.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                         | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                                                                                        | OB500                                  | SBS-SA                                 | (Optional) SBS-SA           | SBS-SA           | -110.0                    |
| R-47.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                         | Min. 0.25-inch DensDeck primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer                                                                                            | OB500                                  | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -110.0                    |
| R-48.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                         | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                  | OB500                                  | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -110.0                    |
| R-49.      | Existing asphaltic roof cover                                                                             | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                                                                                        | OB500                                  | SBS-SA                                 | (Optional) SBS-SA           | SBS-SA           | -120.0                    |
| R-50.      | Existing asphaltic roof cover                                                                             | Min. 0.25-inch DensDeck, optionally primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer                                                                                | OB500                                  | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -120.0                    |
| R-51.      | Existing asphaltic roof cover                                                                             | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                     | OB500                                  | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -120.0                    |
| R-52.      | Existing asphaltic roof cover                                                                             | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer                                                                    | OB500                                  | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -120.0                    |
| R-53.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                         | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                                                                                        | OB500, 6-inch o.c.                     | SBS-SA                                 | (Optional) SBS-SA           | SBS-SA           | -120.0                    |
| R-54.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                         | Min. 0.25-inch DensDeck                                                                                                                                                             | OB500, 6-inch o.c.                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -122.5                    |
| R-55.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                         | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                                                                     | OB500, 6-inch o.c.                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -137.5                    |
| R-56.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                         | Min. 0.25-inch DensDeck primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer                                                                                            | OB500, 6-inch o.c.                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -157.5                    |
| R-57.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                         | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer | OB500, 6-inch o.c.                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -157.5                    |
| R-58.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                         | Min. 0.25-inch DensDeck primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer                                                                                            | OB500, 4-inch o.c.                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -167.5                    |
| R-59.      | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                         | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer | OB500, 4-inch o.c.                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -200.0                    |

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE INSULATION LAYER ONLY)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| System No.                                             | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                    | Base Insulation Layer                                           |                                        | Roof Cover ( <a href="#">Note 15</a> ) |                                      |                  | MDP<br>(psf) <sup>A</sup> |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|------------------|---------------------------|
|                                                        |                                                                                                                        | Type                                                            | Attach ( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                  | Cap Ply          |                           |
| R-60.                                                  | Existing smooth- or granule-surface BUR or modified bitumen                                                            | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | OB500                                  | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA   | -225.0                    |
| <b>VENTING SYSTEMS WITH BASE INSULATION LAYER ONLY</b> |                                                                                                                        |                                                                 |                                        |                                        |                                      |                  |                           |
| R-61.                                                  | Existing asphaltic roof cover                                                                                          | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                    | Hot asphalt                            | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -150.0                    |
| R-62.                                                  | Existing asphaltic roof cover                                                                                          | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                    | Hot asphalt                            | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -150.0                    |
| R-63.                                                  | Existing smooth- or granule-surface BUR, granule-surface modified bitumen or smooth-surface SBS modified bitumen       | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | Hot asphalt                            | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -150.0                    |
| R-64.                                                  | Existing asphaltic roof cover                                                                                          | Min. 1.5-inch EnergyGuard Ultra                                 | Hot asphalt                            | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -172.5                    |
| R-65.                                                  | Existing asphaltic roof cover                                                                                          | Min. 1.5-inch EnergyGuard Ultra                                 | Hot asphalt                            | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -172.5                    |
| R-66.                                                  | Existing smooth-surface BUR                                                                                            | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | LRF-M, M-OSFA                          | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -75.0                     |
| R-67.                                                  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | LRF-M                                  | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -110.0                    |
| R-68.                                                  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | LRF-M, 6-inch o.c.                     | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -157.5                    |
| R-69.                                                  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | LRF-M, 4-inch o.c.                     | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -200.0                    |
| R-70.                                                  | Existing granule-surface BUR or modified bitumen or smooth-surface SBS modified bitumen                                | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | LRF-M, M-OSFA                          | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -225.0                    |
| R-71.                                                  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation                    | LRF-M Canister                         | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -225.0                    |
| R-72.                                                  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | LRF-XF                                 | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -110.0                    |
| R-73.                                                  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | LRF-XF, 6-inch o.c.                    | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -157.5                    |
| R-74.                                                  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | LRF-XF, 4-inch o.c.                    | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -200.0                    |
| R-75.                                                  | Existing smooth- or granule-surface BUR or modified bitumen                                                            | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra | LRF-XF                                 | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -225.0                    |

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE INSULATION LAYER ONLY)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| System No.                                                  | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                    | Base Insulation Layer                                                                                                           |                                        | Roof Cover ( <a href="#">Note 15</a> ) |                                      |                   | MDP<br>(psf) <sup>A</sup> |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|-------------------|---------------------------|
|                                                             |                                                                                                                        | Type                                                                                                                            | Attach ( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                  | Cap Ply           |                           |
| R-76.                                                       | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                                 | OB500                                  | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -110.0                    |
| R-77.                                                       | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                                 | OB500, 6-inch o.c.                     | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -157.5                    |
| R-78.                                                       | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                                 | OB500, 4-inch o.c.                     | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -200.0                    |
| R-79.                                                       | Existing smooth- or granule-surface BUR or modified bitumen                                                            | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                                                 | OB500                                  | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -225.0                    |
| <b>COLD-APPLIED SYSTEMS WITH BASE INSULATION LAYER ONLY</b> |                                                                                                                        |                                                                                                                                 |                                        |                                        |                                      |                   |                           |
| R-80.                                                       | Existing granule-surfaced cap sheet or asphalt BUR                                                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | Hot asphalt                            | SBS-CA1                                | None                                 | SBS-CA1           | -127.5                    |
| R-81.                                                       | Existing granule-surfaced cap sheet                                                                                    | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | Hot asphalt                            | SBS-CA1                                | None                                 | SBS-CA1           | -172.5                    |
| R-82.                                                       | Existing smooth surfaced BUR or granule surface roof cover                                                             | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | LRF-M, M-OSFA                          | SBS-CA or SBS-CA1                      | None                                 | SBS-CA or SBS-CA1 | -75.0                     |
| R-83.                                                       | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 0.5-inch EnergyGuard HD Polyiso Cover Board or EnergyGuard HD Plus Polyiso Cover Board                                     | LRF-M Canister                         | SBS-CA or SBS-CA1                      | None                                 | SBS-CA or SBS-CA1 | -97.5                     |
| R-84.                                                       | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 0.25-inch DensDeck Prime                                                                                                   | LRF-M Canister                         | SBS-CA1                                | None                                 | SBS-CA1           | -127.5                    |
| R-85.                                                       | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | LRF-M Canister                         | SBS-CA1                                | None                                 | SBS-CA1           | -172.5                    |
| R-86.                                                       | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | LRF-XF                                 | SBS-CA1                                | None                                 | SBS-CA1           | -110.0                    |
| R-87.                                                       | Existing asphalt BUR                                                                                                   | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | LRF-XF                                 | SBS-CA1                                | None                                 | SBS-CA1           | -120.0                    |
| R-88.                                                       | Existing granule-surfaced cap sheet                                                                                    | Min. 0.25-inch DensDeck Prime                                                                                                   | LRF-XF                                 | SBS-CA1                                | None                                 | SBS-CA1           | -127.5                    |
| R-89.                                                       | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch DensDeck Prime                                                                                                   | LRF-XF, 6-inch o.c.                    | SBS-CA1                                | None                                 | SBS-CA1           | -127.5                    |
| R-90.                                                       | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | LRF-XF, 6-inch o.c.                    | SBS-CA1                                | None                                 | SBS-CA1           | -157.5                    |
| R-91.                                                       | Existing granule-surfaced cap sheet                                                                                    | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | LRF-XF                                 | SBS-CA1                                | None                                 | SBS-CA1           | -172.5                    |
| R-92.                                                       | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | LRF-XF, 4-inch o.c.                    | SBS-CA1                                | None                                 | SBS-CA1           | -172.5                    |

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE INSULATION LAYER ONLY)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| System No.                                                             | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                                                                                       | Base Insulation Layer                                                                                                           |                                        | Roof Cover ( <a href="#">Note 15</a> ) |                            |                   | MDP<br>(psf) <sup>A</sup> |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------|-------------------|---------------------------|
|                                                                        |                                                                                                                                                                                           | Type                                                                                                                            | Attach ( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                        | Cap Ply           |                           |
| R-93.                                                                  | Existing smooth APP, granule-surfaced cap sheet, asphaltic BUR or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                                                    | OB500                                  | SBS-CA1                                | None                       | SBS-CA1           | -60.0                     |
| R-94.                                                                  | Existing smooth surfaced BUR / APP modified bitumen, granule surface roof cover or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel over structural concrete deck | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | OB500                                  | SBS-CA or SBS-CA1                      | None                       | SBS-CA or SBS-CA1 | -97.5                     |
| R-95.                                                                  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                                                                         | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | OB500                                  | SBS-CA1                                | None                       | SBS-CA1           | -110.0                    |
| R-96.                                                                  | Existing asphalt BUR                                                                                                                                                                      | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | OB500                                  | SBS-CA1                                | None                       | SBS-CA1           | -120.0                    |
| R-97.                                                                  | Existing smooth APP or granule-surfaced cap sheet                                                                                                                                         | Min. 0.25-inch DensDeck Prime                                                                                                   | OB500                                  | SBS-CA1                                | None                       | SBS-CA1           | -127.5                    |
| R-98.                                                                  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                                                                         | Min. 0.25-inch DensDeck Prime                                                                                                   | OB500, 6-inch o.c.                     | SBS-CA1                                | None                       | SBS-CA1           | -127.5                    |
| R-99.                                                                  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                                                                         | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500, 6-inch o.c.                     | SBS-CA1                                | None                       | SBS-CA1           | -157.5                    |
| R-100.                                                                 | Existing smooth APP                                                                                                                                                                       | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500                                  | SBS-CA1                                | None                       | SBS-CA1           | -165.0                    |
| R-101.                                                                 | Existing granule-surfaced cap sheet                                                                                                                                                       | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500                                  | SBS-CA1                                | None                       | SBS-CA1           | -172.5                    |
| R-102.                                                                 | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                                                                         | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500, 4-inch o.c.                     | SBS-CA1                                | None                       | SBS-CA1           | -172.5                    |
| <b>HYBRID HOT/COLD-APPLIED SYSTEMS WITH BASE INSULATION LAYER ONLY</b> |                                                                                                                                                                                           |                                                                                                                                 |                                        |                                        |                            |                   |                           |
| R-103.                                                                 | Existing granule-surfaced cap sheet or asphalt BUR                                                                                                                                        | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | Hot asphalt                            | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1           | -127.5                    |
| R-104.                                                                 | Existing granule-surfaced cap sheet                                                                                                                                                       | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | Hot asphalt                            | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1           | -172.5                    |
| R-105.                                                                 | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen                                                                    | Min. 0.25-inch DensDeck Prime                                                                                                   | LRF-M Canister                         | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1           | -127.5                    |
| R-106.                                                                 | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen                                                                    | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | LRF-M Canister                         | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1           | -172.5                    |
| R-107.                                                                 | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                                                                         | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | LRF-XF                                 | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1           | -110.0                    |

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE INSULATION LAYER ONLY)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| System No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )               | Base Insulation Layer                                             |                                        | Roof Cover ( <a href="#">Note 15</a> ) |                            |         | MDP<br>(psf) <sup>A</sup> |
|------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------|---------|---------------------------|
|            |                                                                                   | Type                                                              | Attach ( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                        | Cap Ply |                           |
| R-108.     | Existing asphalt BUR                                                              | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF                                 | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -120.0                    |
| R-109.     | Existing granule-surfaced cap sheet                                               | Min. 0.25-inch DensDeck Prime                                     | LRF-XF                                 | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -127.5                    |
| R-110.     | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 0.25-inch DensDeck Prime                                     | LRF-XF, 6-inch o.c.                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -127.5                    |
| R-111.     | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-XF, 6-inch o.c.                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -157.5                    |
| R-112.     | Existing granule-surfaced cap sheet                                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-XF                                 | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -172.5                    |
| R-113.     | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-XF, 4-inch o.c.                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -172.5                    |
| R-114.     | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                  | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -110.0                    |
| R-115.     | Existing asphalt BUR                                                              | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                  | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -120.0                    |
| R-116.     | Existing smooth APP or granule-surfaced cap sheet                                 | Min. 0.25-inch DensDeck Prime                                     | OB500                                  | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -127.5                    |
| R-117.     | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 0.25-inch DensDeck Prime                                     | OB500, 6-inch o.c.                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -127.5                    |
| R-118.     | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | OB500, 6-inch o.c.                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -157.5                    |
| R-119.     | Existing smooth APP                                                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | OB500                                  | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -165.0                    |
| R-120.     | Existing granule-surfaced cap sheet                                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | OB500                                  | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -172.5                    |
| R-121.     | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | OB500, 4-inch o.c.                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -172.5                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No.                                               | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                              | Base Insulation Layer                                             |                                           | Top Insulation Layer                                                                                                                          |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                                        |                          | MDP<br>( <a href="#">psf</a> ) <sup>A</sup> |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------------------------|--------------------------|---------------------------------------------|
|                                                       |                                                                                                                  | Type                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                                                          | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                                    | Cap Ply                  |                                             |
| CONVENTIONAL SYSTEMS (BASE AND TOP LAYER INSULATION): |                                                                                                                  |                                                                   |                                           |                                                                                                                                               |                                           |                                        |                                                        |                          |                                             |
| R-122.                                                | Existing asphaltic roof cover                                                                                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                      | Hot asphalt                               | Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                   | Hot asphalt                               | BP-AA                                  | (Optional) BP-AA                                       | SBS-AA or SBS-TA         | -112.5                                      |
| R-123.                                                | Existing asphaltic roof cover                                                                                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                      | Hot asphalt                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                             | Hot asphalt                               | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -127.5                                      |
| R-124.                                                | Existing smooth- or granule-surface BUR, granule-surface modified bitumen or smooth-surface SBS modified bitumen | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra   | Hot asphalt                               | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum Fiber Roof Board | Hot asphalt                               | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA                               | SBS-AA                   | -150.0                                      |
| R-125.                                                | Existing granule surface cap sheet                                                                               | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                      | Hot asphalt                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                             | Hot asphalt                               | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -172.5                                      |
| R-126.                                                | Existing asphaltic roof cover                                                                                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | Hot asphalt                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                               | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -225.0                                      |
| R-127.                                                | Existing asphaltic roof cover                                                                                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | Hot asphalt                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                             | Hot asphalt                               | SBS-TA                                 | (Optional) SBS-TA                                      | SBS-TA                   | -232.5                                      |
| R-128.                                                | Existing asphaltic roof cover                                                                                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                      | Hot asphalt                               | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                               | Hot asphalt                               | APP-TA                                 | (Optional) APP-TA                                      | APP-TA                   | -240.0                                      |
| R-129.                                                | Existing asphaltic roof cover                                                                                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                      | Hot asphalt                               | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck Prime                                             | Hot asphalt                               | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -240.0                                      |
| R-130.                                                | Existing smooth-surface BUR                                                                                      | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra   | LRF-M, M-OSFA                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum Fiber Roof Board   | LRF-M, M-OSFA                             | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA                               | SBS-AA                   | -75.0                                       |
| R-131.                                                | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra   | LRF-M                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum Fiber Roof Board   | LRF-M                                     | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA                               | SBS-AA                   | -110.0                                      |
| R-132.                                                | Existing granule-surface BUR or modified bitumen or smooth-surface SBS modified bitumen                          | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra   | LRF-M, M-OSFA                             | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum Fiber Roof Board   | LRF-M, M-OSFA                             | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA                               | SBS-AA                   | -150.0                                      |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                    | Base Insulation Layer                                                        |                                           | Top Insulation Layer                                                                                                                        |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                            |                          | MDP<br>(psf) <sup>A</sup> |
|---------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------------|--------------------------|---------------------------|
|         |                                                                                                                        | Type                                                                         | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                                                        | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                        | Cap Ply                  |                           |
| R-133.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra              | LRF-M, 6-inch o.c.                        | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum Fiber Roof Board | LRF-M                                     | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA                   | SBS-AA                   | -150.0                    |
| R-134.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M Canister                            | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                             | LRF-M Canister                            | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -225.0                    |
| R-135.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M Canister                            | Min. 0.25-inch DensDeck Prime                                                                                                               | LRF-M Canister                            | SBS-TA                                 | (Optional) SBS-TA                          | SBS-TA                   | -232.5                    |
| R-136.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M Canister                            | Min. 0.25-inch DensDeck Prime                                                                                                               | LRF-M Canister                            | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -240.0                    |
| R-137.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M Canister                            | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                             | LRF-M Canister                            | APP-TA                                 | (Optional) APP-TA                          | APP-TA                   | -240.0                    |
| R-138.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M Canister                            | min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                             | LRF-M Canister                            | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA           | SBS-AA, SBS-TA           | -247.5                    |
| R-139.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF                                    | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                           | LRF-XF                                    | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -110.0                    |
| R-140.  | Existing smooth- or granule-surface BUR or modified bitumen                                                            | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra              | LRF-XF                                    | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board                                                                           | LRF-XF                                    | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA                   | SBS-AA                   | -150.0                    |
| R-141.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF, 6-inch o.c.                       | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                           | LRF-XF                                    | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -157.5                    |
| R-142.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF, 4-inch o.c.                       | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                           | LRF-XF                                    | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -180.0                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )               | Base Insulation Layer                                                                             |                                           | Top Insulation Layer                                                                                                                        |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                                        |                          | MDP<br>(psf) <sup>A</sup> |
|---------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------------------------|--------------------------|---------------------------|
|         |                                                                                   | Type                                                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                                                        | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                                    | Cap Ply                  |                           |
| R-143.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                      | LRF-XF, 4-inch o.c.                       | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                           | LRF-XF                                    | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -200.0                    |
| R-144.  | Existing asphaltic roof cover                                                     | Min. 2.0-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | LRF-XF                                    | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                             | LRF-XF                                    | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -225.0                    |
| R-145.  | Existing asphaltic roof cover                                                     | Min. 2.0-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | LRF-XF                                    | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                             | LRF-XF                                    | SBS-TA or APP-TA                       | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -232.5                    |
| R-146.  | Existing asphaltic roof cover                                                     | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | LRF-XF                                    | Min. 0.25-inch DensDeck Prime                                                                                                               | LRF-XF                                    | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -240.0                    |
| R-147.  | Existing granule-surfaced cap sheet                                               | Min. 1.5-inch EnergyGuard RA                                                                      | LRF-XF, 6-inch o.c.                       | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                           | LRF-XF, 6-inch o.c.                       | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -240.0                    |
| R-148.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                      | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                            | OB500                                     | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -110.0                    |
| R-149.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                     | Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                 | OB500                                     | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -110.0                    |
| R-150.  | Existing asphalt BUR or granule-surfaced cap sheet                                | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | OB500                                     | Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                                 | OB500                                     | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -120.0                    |
| R-151.  | Existing asphalt BUR or granule-surfaced cap sheet                                | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                            | OB500                                     | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -120.0                    |
| R-152.  | Existing smooth APP                                                               | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | OB500                                     | Min. 0.25-inch DensDeck or DensDeck Prime                                                                                                   | OB500                                     | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -150.0                    |
| R-153.  | Existing smooth- or granule-surface BUR or modified bitumen                       | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.25-inch DensDeck, DensDeck Prime, SECUROCK Gypsum Fiber Roof Board | OB500                                     | BP-AA, SBS-AA                          | (Optional) BP-AA, SBS-AA                               | SBS-AA                   | -150.0                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )               | Base Insulation Layer                                                                             |                                           | Top Insulation Layer                                              |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                                        |                          | MDP<br>(psf) <sup>A</sup> |
|---------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------------------------|--------------------------|---------------------------|
|         |                                                                                   | Type                                                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                                    | Cap Ply                  |                           |
| R-154.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                      | OB500, 6-inch o.c.                        | Min. 0.25-inch DensDeck or DensDeck Prime                         | OB500                                     | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -150.0                    |
| R-155.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500, 6-inch o.c.                        | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | OB500                                     | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -157.5                    |
| R-156.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500, 6-inch o.c.                        | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                     | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -157.5                    |
| R-157.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500, 6-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -157.5                    |
| R-158.  | Existing smooth APP                                                               | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | OB500                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                     | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -165.0                    |
| R-159.  | Existing smooth APP                                                               | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | OB500                                     | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -165.0                    |
| R-160.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                      | OB500, 4-inch o.c.                        | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | OB500                                     | BP-AA, SBS-AA                          | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -165.0                    |
| R-161.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500, 4-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -187.5                    |
| R-162.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500, 4-inch o.c.                        | Min. 0.25-inch DensDeck Prime                                     | OB500                                     | SBS-TA                                 | (Optional) SBS-TA                                      | SBS-TA                   | -200.0                    |
| R-163.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500, 4-inch o.c.                        | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                     | SBS-TA, APP-TA                         | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -200.0                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No.                                                                   | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                    | Base Insulation Layer                                                                             |                                           | Top Insulation Layer                                                                                                            |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                                        |                          | MDP<br>(psf) <sup>A</sup> |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------------------------|--------------------------|---------------------------|
|                                                                           |                                                                                                                        | Type                                                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                                            | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                                    | Cap Ply                  |                           |
| R-164.                                                                    | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500, 4-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -200.0                    |
| R-165.                                                                    | Existing granule-surfaced cap sheet                                                                                    | Min. 1.5-inch EnergyGuard RA                                                                      | OB500, 6-inch o.c.                        | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | OB500, 6-inch o.c.                        | BP-AA, SBS-AA, SBS-TA or APP-TA        | (Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -240.0                    |
| <b>SELF-ADHERING BASE PLY WITH POLYISOCYANURATE BASE INSULATION LAYER</b> |                                                                                                                        |                                                                                                   |                                           |                                                                                                                                 |                                           |                                        |                                                        |                          |                           |
| R-166.                                                                    | Existing smooth-surface BUR                                                                                            | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | LRF-M, M-OSFA                             | Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board                                                                                 | LRF-M, M-OSFA                             | SBS-SA                                 | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -75.0                     |
| R-167.                                                                    | Existing smooth surfaced BUR or granule surface roof cover                                                             | Min. 1.5-inch EnergyGuard RH                                                                      | LRF-M, M-OSFA                             | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | LRF-M, M-OSFA                             | SBS-SA                                 | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -75.0                     |
| R-168.                                                                    | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH                                      | LRF-M                                     | Min. 0.5-inch EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board                                       | LRF-M                                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -97.5                     |
| R-169.                                                                    | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | LRF-M                                     | (Optional) Additional layer(s) base insulation and/or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                           | LRF-M                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -110.0                    |
| R-170.                                                                    | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | LRF-M, 6-inch o.c.                        | (Optional) Additional layer(s) base insulation and/or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                           | LRF-M                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -157.5                    |
| R-171.                                                                    | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | LRF-M, 4-inch o.c.                        | (Optional) Additional layer(s) base insulation and/or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                           | LRF-M                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA                              | SBS-TA, APP-TA           | -200.0                    |
| R-172.                                                                    | Existing granule-surface BUR or modified bitumen or smooth-surface SBS modified bitumen                                | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | LRF-M, M-OSFA                             | Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board                                                                                 | LRF-M, M-OSFA                             | SBS-SA                                 | (Optional) SBS-TA or APP-TA                            | SBS-TA or APP-TA         | -225.0                    |
| R-173.                                                                    | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                      | LRF-M Canister                            | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | LRF-M Canister                            | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA             | SBS-AA, SBS-TA or APP-TA | -225.0                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                    | Base Insulation Layer                                                        |                                           | Top Insulation Layer                                                                                  |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                            |                          | MDP<br>(psf) <sup>A</sup> |
|---------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------------|--------------------------|---------------------------|
|         |                                                                                                                        | Type                                                                         | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                  | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                        | Cap Ply                  |                           |
| R-174.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M Canister                            | Min. 0.25-inch DensDeck Prime                                                                         | LRF-M Canister                            | SBS-TA                                 | (Optional) SBS-TA                          | SBS-TA                   | -232.5                    |
| R-175.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M Canister                            | Min. 0.25-inch DensDeck Prime                                                                         | LRF-M Canister                            | BP-AA or SBS-AA                        | (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA | SBS-AA, SBS-TA or APP-TA | -240.0                    |
| R-176.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra              | LRF-XF                                    | (Optional) Additional layer(s) base insulation and/or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -110.0                    |
| R-177.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra              | LRF-XF                                    | Min. 0.25-inch DensDeck Prime                                                                         | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-SA                          | SBS-SA                   | -110.0                    |
| R-178.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra              | LRF-XF, 6-inch o.c.                       | Min. 0.25-inch DensDeck Prime                                                                         | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-SA                          | SBS-SA                   | -152.5                    |
| R-179.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra              | LRF-XF, 6-inch o.c.                       | (Optional) Additional layer(s) base insulation and/or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -157.5                    |
| R-180.  | Existing smooth- or granule-surface BUR or modified bitumen                                                            | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra              | LRF-XF                                    | Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board                                                       | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA or APP-TA                | SBS-TA or APP-TA         | -180.0                    |
| R-181.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra              | LRF-XF, 4-inch o.c.                       | (Optional) Additional layer(s) base insulation                                                        | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -180.0                    |
| R-182.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra              | LRF-XF, 4-inch o.c.                       | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                       | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -180.0                    |
| R-183.  | Existing smooth- or granule-surface BUR or modified bitumen                                                            | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra              | LRF-XF                                    | Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board                                                       | LRF-XF                                    | SBS-SA                                 | (Optional) SBS-TA or APP-TA                | SBS-TA or APP-TA         | -225.0                    |
| R-184.  | Existing granule-surfaced cap sheet                                                                                    | Min. 1.5-inch EnergyGuard RA                                                 | LRF-XF, 6-inch o.c.                       | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board (primer optional)                                     | LRF-XF, 6-inch o.c.                       | SBS-SA                                 | (Optional) SBS-TA, APP-TA                  | SBS-TA, APP-TA           | -240.0                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                             | Base Insulation Layer                                                                             |                                           | Top Insulation Layer                                                                                                            |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                             |                  | MDP<br>(psf) <sup>A</sup> |
|---------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------|------------------|---------------------------|
|         |                                                                                                                 | Type                                                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                                            | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                         | Cap Ply          |                           |
| R-185.  | Existing smooth surfaced BUR / APP modified bitumen or granule surface roof cover over structural concrete deck | Min. 1.5-inch EnergyGuard RH                                                                      | OB500                                     | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | OB500                                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -97.5                     |
| R-186.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                               | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH                                      | OB500                                     | Min. 0.5-inch EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board                                       | OB500                                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA | SBS-TA or APP-TA | -97.5                     |
| R-187.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                               | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | OB500                                     | (Optional) Additional layer(s) base insulation                                                                                  | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -110.0                    |
| R-188.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                               | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH, EnergyGuard Ultra   | OB500                                     | Min. 0.25-inch DensDeck Prime                                                                                                   | OB500                                     | SBS-SA                                 | (Optional) SBS-SA           | SBS-SA           | -110.0                    |
| R-189.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                               | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH, EnergyGuard Ultra   | OB500                                     | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -110.0                    |
| R-190.  | Existing asphaltic roof cover                                                                                   | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | OB500                                     | Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                     | OB500                                     | SBS-SA                                 | (Optional) SBS-SA           | SBS-TA or APP-TA | -120.0                    |
| R-191.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                               | Min. 1.5-inch EnergyGuard Polyiso Insulation                                                      | OB500, 6-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -120.0                    |
| R-192.  | Existing smooth APP                                                                                             | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | OB500                                     | Min. 0.25-inch DensDeck Prime                                                                                                   | OB500                                     | SBS-SA                                 | (Optional) SBS-SA           | SBS-SA           | -152.5                    |
| R-193.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                               | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                      | OB500, 6-inch o.c.                        | Min. 0.25-inch DensDeck Prime                                                                                                   | OB500                                     | SBS-SA                                 | (Optional) SBS-SA           | SBS-SA           | -152.5                    |
| R-194.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                               | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | OB500, 6-inch o.c.                        | (Optional) Additional layer(s) base insulation                                                                                  | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -157.5                    |
| R-195.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                               | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500, 6-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA   | SBS-TA, APP-TA   | -157.5                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No.                                                             | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )               | Base Insulation Layer                                                                             |                                           | Top Insulation Layer                                                                                       |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                      |                  | MDP<br>(psf) <sup>A</sup> |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------|------------------|---------------------------|
|                                                                     |                                                                                   | Type                                                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                       | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                  | Cap Ply          |                           |
| R-196.                                                              | Existing smooth APP                                                               | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | OB500                                     | Min. 0.25-inch DensDeck; surface shall be primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA   | -165.0                    |
| R-197.                                                              | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                      | OB500, 4-inch o.c.                        | Min. 0.25-inch DensDeck; surface shall be primed with Matrix 307 Premium Asphalt Primer or ASTM D41 primer | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA   | -167.5                    |
| R-198.                                                              | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | OB500, 4-inch o.c.                        | (Optional) Additional layer(s) base insulation                                                             | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA   | -200.0                    |
| R-199.                                                              | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500, 4-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                            | OB500                                     | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA   | -200.0                    |
| R-200.                                                              | Existing smooth- or granule-surface BUR or modified bitumen                       | Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra                                   | OB500                                     | Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board                                                            | OB500                                     | SBS-SA                                 | (Optional) SBS-TA or APP-TA          | SBS-TA or APP-TA | -225.0                    |
| R-201.                                                              | Existing granule-surfaced cap sheet                                               | Min. 1.5-inch EnergyGuard RA                                                                      | OB500, 6-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board (primer optional)                                          | OB500, 6-inch o.c.                        | SBS-SA                                 | (Optional) SBS-TA, APP-TA            | SBS-TA, APP-TA   | -240.0                    |
| <b>VENTING SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:</b> |                                                                                   |                                                                                                   |                                           |                                                                                                            |                                           |                                        |                                      |                  |                           |
| R-202.                                                              | Existing asphaltic roof cover                                                     | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | Hot asphalt                               | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                           | Hot asphalt                               | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -90.0                     |
| R-203.                                                              | Existing asphaltic roof cover                                                     | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | Hot asphalt                               | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                           | Hot asphalt                               | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -90.0                     |
| R-204.                                                              | Existing asphaltic roof cover                                                     | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | Hot asphalt                               | (Optional) Additional layer(s) base insulation                                                             | Hot asphalt                               | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -150.0                    |
| R-205.                                                              | Existing asphaltic roof cover                                                     | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | Hot asphalt                               | (Optional) Additional layer(s) base insulation                                                             | Hot asphalt                               | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -150.0                    |
| R-206.                                                              | Existing asphaltic roof cover                                                     | Min. 1.5-inch EnergyGuard Ultra                                                                   | Hot asphalt                               | (Optional) Additional layer(s) base insulation                                                             | Hot asphalt                               | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -172.5                    |
| R-207.                                                              | Existing asphaltic roof cover                                                     | Min. 1.5-inch EnergyGuard Ultra                                                                   | Hot asphalt                               | (Optional) Additional layer(s) base insulation                                                             | Hot asphalt                               | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -172.5                    |
| R-208.                                                              | Existing asphaltic roof cover                                                     | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | Hot asphalt                               | Min. 0.25-inch DensDeck or DensDeck Prime                                                                  | Hot asphalt                               | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -240.0                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                    | Base Insulation Layer                                                                             |                                           | Top Insulation Layer                           |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                      |                  | MDP<br>(psf) <sup>A</sup> |
|---------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------|------------------|---------------------------|
|         |                                                                                                                        | Type                                                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                           | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                  | Cap Ply          |                           |
| R-209.  | Existing asphaltic roof cover                                                                                          | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra                                 | Hot asphalt                               | Min. 0.25-inch DensDeck or DensDeck Prime      | Hot asphalt                               | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -240.0                    |
| R-210.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | LRF-M Canister                            | (Optional) Additional layer(s) base insulation | LRF-M Canister                            | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -150.0                    |
| R-211.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | LRF-M Canister                            | (Optional) Additional layer(s) base insulation | LRF-M Canister                            | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -150.0                    |
| R-212.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                      | LRF-M Canister                            | Min. 0.25-inch DensDeck Prime                  | LRF-M Canister                            | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -240.0                    |
| R-213.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH                      | LRF-M Canister                            | Min. 0.25-inch DensDeck Prime                  | LRF-M Canister                            | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -240.0                    |
| R-214.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Ultra                                                                   | LRF-XF                                    | (Optional) Additional layer(s) base insulation | LRF-XF                                    | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -110.0                    |
| R-215.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Ultra                                                                   | LRF-XF                                    | (Optional) Additional layer(s) base insulation | LRF-XF                                    | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -110.0                    |
| R-216.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | LRF-XF                                    | Min. 0.25-inch DensDeck Prime                  | LRF-XF                                    | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -110.0                    |
| R-217.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | LRF-XF                                    | Min. 0.25-inch DensDeck Prime                  | LRF-XF                                    | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -110.0                    |
| R-218.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Ultra                                                                   | LRF-XF, 6-inch o.c.                       | (Optional) Additional layer(s) base insulation | LRF-XF                                    | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -157.5                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )               | Base Insulation Layer                                                                             |                                           | Top Insulation Layer                                             |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                      |                  | MDP<br>(psf) <sup>A</sup> |
|---------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------|------------------|---------------------------|
|         |                                                                                   | Type                                                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                             | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                  | Cap Ply          |                           |
| R-219.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Ultra                                                                   | LRF-XF, 6-inch o.c.                       | (Optional) Additional layer(s) base insulation                   | LRF-XF                                    | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -157.5                    |
| R-220.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | LRF-XF, 6-inch o.c.                       | Min. 0.25-inch DensDeck Prime                                    | LRF-XF                                    | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -157.5                    |
| R-221.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | LRF-XF, 6-inch o.c.                       | Min. 0.25-inch DensDeck Prime                                    | LRF-XF                                    | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -157.5                    |
| R-222.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Ultra                                                                   | LRF-XF, 4-inch o.c.                       | (Optional) Additional layer(s) base insulation                   | LRF-XF                                    | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -172.5                    |
| R-223.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Ultra                                                                   | LRF-XF, 4-inch o.c.                       | (Optional) Additional layer(s) base insulation                   | LRF-XF                                    | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -172.5                    |
| R-224.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | LRF-XF                                    | Min. 0.25-inch DensDeck Prime                                    | LRF-XF                                    | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -200.0                    |
| R-225.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | LRF-XF                                    | Min. 0.25-inch DensDeck Prime                                    | LRF-XF                                    | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -200.0                    |
| R-226.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | OB500                                     | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -90.0                     |
| R-227.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | OB500                                     | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA | -90.0                     |
| R-228.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Ultra                                                                   | OB500                                     | (Optional) Additional layer(s) base insulation                   | OB500                                     | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA           | -110.0                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No.                                                                  | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )               | Base Insulation Layer                                                                             |                                           | Top Insulation Layer                                                                                                            |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                                      |                   | MDP<br>(psf) <sup>A</sup> |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|--------------------------------------|-------------------|---------------------------|
|                                                                          |                                                                                   | Type                                                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                                            | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                                  | Cap Ply           |                           |
| R-229.                                                                   | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Ultra                                                                   | OB500                                     | (Optional) Additional layer(s) base insulation                                                                                  | OB500                                     | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA  | -110.0                    |
| R-230.                                                                   | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                     | Min. 0.25-inch DensDeck or DensDeck Prime                                                                                       | OB500                                     | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -110.0                    |
| R-231.                                                                   | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500                                     | Min. 0.25-inch DensDeck or DensDeck Prime                                                                                       | OB500                                     | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA  | -110.0                    |
| R-232.                                                                   | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Ultra                                                                   | OB500, 6-inch o.c.                        | (Optional) Additional layer(s) base insulation                                                                                  | OB500                                     | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -150.0                    |
| R-233.                                                                   | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Ultra                                                                   | OB500, 6-inch o.c.                        | (Optional) Additional layer(s) base insulation                                                                                  | OB500                                     | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA  | -150.0                    |
| R-234.                                                                   | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500, 6-inch o.c.                        | Min. 0.25-inch DensDeck or DensDeck Prime                                                                                       | OB500                                     | BP-LL                                  | (Optional) One or more BP-AA, SBS-AA | SBS-AA            | -150.0                    |
| R-235.                                                                   | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard Ultra | OB500, 6-inch o.c.                        | Min. 0.25-inch DensDeck or DensDeck Prime                                                                                       | OB500                                     | BP-LL                                  | One or more BP-AA, SBS-AA            | SBS-TA or APP-TA  | -150.0                    |
| <b>COLD-APPLIED SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:</b> |                                                                                   |                                                                                                   |                                           |                                                                                                                                 |                                           |                                        |                                      |                   |                           |
| R-236.                                                                   | Existing asphalt BUR                                                              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | Hot asphalt                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | Hot asphalt                               | SBS-CA1                                | None                                 | SBS-CA1           | -120.0                    |
| R-237.                                                                   | Existing granule-surfaced cap sheet                                               | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                                      | Hot asphalt                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | Hot asphalt                               | SBS-CA1                                | None                                 | SBS-CA1           | -127.5                    |
| R-238.                                                                   | Existing smooth surfaced BUR or granule surface roof cover                        | Min. 1.5-inch EnergyGuard RH                                                                      | LRF-M, LRF-M Canister or M-OSFA           | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | LRF-M, LRF-M Canister or M-OSFA           | SBS-CA or SBS-CA1                      | None                                 | SBS-CA or SBS-CA1 | -75.0                     |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                    | Base Insulation Layer                                                        |                                           | Top Insulation Layer                                              |                                           | Roof Cover ( <a href="#">Note 15</a> ) |      |         | MDP<br>(psf) <sup>A</sup> |
|---------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|----------------------------------------|------|---------|---------------------------|
|         |                                                                                                                        | Type                                                                         | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply  | Cap Ply |                           |
| R-239.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-M                                     | SBS-CA1                                | None | SBS-CA1 | -110.0                    |
| R-240.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M, 6-inch o.c.                        | Min. 0.25-inch DensDeck Prime                                     | LRF-M                                     | SBS-CA1                                | None | SBS-CA1 | -127.5                    |
| R-241.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M, 6-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-M                                     | SBS-CA1                                | None | SBS-CA1 | -157.5                    |
| R-242.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M, 4-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-M                                     | SBS-CA1                                | None | SBS-CA1 | -172.5                    |
| R-243.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M Canister                            | Min. 0.25-inch DensDeck Prime                                     | LRF-M Canister                            | SBS-CA1                                | None | SBS-CA1 | -127.5                    |
| R-244.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M Canister                            | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-M Canister                            | SBS-CA1                                | None | SBS-CA1 | -172.5                    |
| R-245.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF                                    | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF                                    | SBS-CA1                                | None | SBS-CA1 | -110.0                    |
| R-246.  | Existing granule-surfaced cap sheet                                                                                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | LRF-XF                                    | Min. 0.25-inch DensDeck Prime                                     | LRF-XF                                    | SBS-CA1                                | None | SBS-CA1 | -127.5                    |
| R-247.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF, 6-inch o.c.                       | Min. 0.25-inch DensDeck Prime                                     | LRF-XF                                    | SBS-CA1                                | None | SBS-CA1 | -127.5                    |
| R-248.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF, 6-inch o.c.                       | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-XF                                    | SBS-CA1                                | None | SBS-CA1 | -157.5                    |
| R-249.  | Existing granule-surfaced cap sheet                                                                                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | LRF-XF                                    | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-XF                                    | SBS-CA1                                | None | SBS-CA1 | -172.5                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No.                                                                             | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                                                                                       | Base Insulation Layer                                                        |                                           | Top Insulation Layer                                                                                                            |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                            |                   | MDP<br>(psf) <sup>A</sup> |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|----------------------------|-------------------|---------------------------|
|                                                                                     |                                                                                                                                                                                           | Type                                                                         | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                                                                                            | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                        | Cap Ply           |                           |
| R-250.                                                                              | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                                                                         | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF, 4-inch o.c.                       | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | LRF-XF                                    | SBS-CA1                                | None                       | SBS-CA1           | -172.5                    |
| R-251.                                                                              | Existing asphaltic roof cover or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                                                 | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation                                                                | OB500                                     | SBS-CA                                 | None                       | SBS-CA            | -45.0                     |
| R-252.                                                                              | Existing smooth surfaced BUR / APP modified bitumen, granule surface roof cover or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel over structural concrete deck | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH                 | OB500                                     | Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Cover Board, EnergyGuard HD Plus Polyiso Cover Board | OB500                                     | SBS-CA or SBS-CA1                      | None                       | SBS-CA or SBS-CA1 | -97.5                     |
| R-253.                                                                              | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                                                                         | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | OB500                                     | SBS-CA1                                | None                       | SBS-CA1           | -110.0                    |
| R-254.                                                                              | Existing asphalt BUR                                                                                                                                                                      | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | OB500                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | OB500                                     | SBS-CA1                                | None                       | SBS-CA1           | -120.0                    |
| R-255.                                                                              | Existing smooth APP or granule-surfaced cap sheet                                                                                                                                         | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | OB500                                     | Min. 0.25-inch DensDeck Prime                                                                                                   | OB500                                     | SBS-CA1                                | None                       | SBS-CA1           | -127.5                    |
| R-256.                                                                              | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                                                                         | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500, 6-inch o.c.                        | Min. 0.25-inch DensDeck Prime                                                                                                   | OB500                                     | SBS-CA1                                | None                       | SBS-CA1           | -127.5                    |
| R-257.                                                                              | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                                                                         | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500, 6-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500                                     | SBS-CA1                                | None                       | SBS-CA1           | -157.5                    |
| R-258.                                                                              | Existing smooth APP                                                                                                                                                                       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | OB500                                     | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500                                     | SBS-CA1                                | None                       | SBS-CA1           | -165.0                    |
| R-259.                                                                              | Existing granule-surfaced cap sheet                                                                                                                                                       | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | OB500                                     | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500                                     | SBS-CA1                                | None                       | SBS-CA1           | -172.5                    |
| R-260.                                                                              | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                                                                                         | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500, 4-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                                                                                 | OB500                                     | SBS-CA1                                | None                       | SBS-CA1           | -172.5                    |
| <b>HYBRID HOT/COLD-APPLIED SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:</b> |                                                                                                                                                                                           |                                                                              |                                           |                                                                                                                                 |                                           |                                        |                            |                   |                           |
| R-261.                                                                              | Existing asphalt BUR                                                                                                                                                                      | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | Hot asphalt                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board                                                               | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1           | -120.0                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )                                                    | Base Insulation Layer                                                        |                                           | Top Insulation Layer                                              |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                            |         | MDP<br>(psf) <sup>A</sup> |
|---------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|----------------------------------------|----------------------------|---------|---------------------------|
|         |                                                                                                                        | Type                                                                         | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                        | Cap Ply |                           |
| R-262.  | Existing granule-surfaced cap sheet                                                                                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | Hot asphalt                               | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | Hot asphalt                               | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -127.5                    |
| R-263.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-M                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -110.0                    |
| R-264.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M, 6-inch o.c.                        | Min. 0.25-inch DensDeck Prime                                     | LRF-M                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -127.5                    |
| R-265.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M, 6-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-M                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -157.5                    |
| R-266.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M, 4-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-M                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -172.5                    |
| R-267.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M Canister                            | Min. 0.25-inch DensDeck Prime                                     | LRF-M Canister                            | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -127.5                    |
| R-268.  | New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-M Canister                            | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-M Canister                            | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -172.5                    |
| R-269.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF                                    | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF                                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -110.0                    |
| R-270.  | Existing granule-surfaced cap sheet                                                                                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | LRF-XF                                    | Min. 0.25-inch DensDeck Prime                                     | LRF-XF                                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -127.5                    |
| R-271.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF, 6-inch o.c.                       | Min. 0.25-inch DensDeck Prime                                     | LRF-XF                                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -127.5                    |
| R-272.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel                                      | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF, 6-inch o.c.                       | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-XF                                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -157.5                    |
| R-273.  | Existing granule-surfaced cap sheet                                                                                    | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | LRF-XF                                    | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-XF                                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -172.5                    |

**TABLE 7B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (BASE AND TOP LAYER INSULATION)**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See [Note 1](#)) or performance of the substrate (See [Note 12](#)). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| Sys No. | Substrate<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )               | Base Insulation Layer                                                        |                                           | Top Insulation Layer                                              |                                           | Roof Cover ( <a href="#">Note 15</a> ) |                            |         | MDP<br>(psf) <sup>A</sup> |
|---------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|-------------------------------------------|----------------------------------------|----------------------------|---------|---------------------------|
|         |                                                                                   | Type                                                                         | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                                                              | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base Ply                               | Ply                        | Cap Ply |                           |
| R-274.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | LRF-XF, 4-inch o.c.                       | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | LRF-XF                                    | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -172.5                    |
| R-275.  | Existing asphalt BUR                                                              | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | OB500                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -120.0                    |
| R-276.  | Existing smooth APP or granule-surfaced cap sheet                                 | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | OB500                                     | Min. 0.25-inch DensDeck Prime                                     | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -127.5                    |
| R-277.  | Existing smooth APP                                                               | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | OB500                                     | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -165.0                    |
| R-278.  | Existing granule-surfaced cap sheet                                               | Min. 1.5-inch EnergyGuard RA, EnergyGuard RH                                 | OB500                                     | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -172.5                    |
| R-279.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500                                     | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -110.0                    |
| R-280.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500, 6-inch o.c.                        | Min. 0.25-inch DensDeck Prime                                     | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -127.5                    |
| R-281.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500, 6-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -157.5                    |
| R-282.  | Existing gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH | OB500, 4-inch o.c.                        | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board                   | OB500                                     | BP-AA or SBS-AA                        | (Optional) BP-AA or SBS-AA | SBS-CA1 | -172.5                    |