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Product Approval

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EMERGENCY
MANAGEMENT

OFFICE OF THE
SECRETARY

FL #	FL5680-R4														
Application Type	Revision														
Code Version	2010														
Application Status	Approved														
Comments															
Archived	<input type="checkbox"/>														
Product Manufacturer	GAF														
Address/Phone/Email	1361 Alps Road Wayne, NJ 07470 (973) 872-4421 lindareith@trinityerd.com														
Authorized Signature	Beth McSorley lindareith@trinityerd.com														
Technical Representative	Beth McSorley														
Address/Phone/Email	1361 Alps Road - Bldg 11-1 Wayne, NJ 07470 (973) 872-4421 BMcSorley@gaf.com														
Quality Assurance Representative															
Address/Phone/Email															
Category	Roofing														
Subcategory	Modified Bitumen Roof System														
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input checked="" type="checkbox"/> Evaluation Report - Hardcopy Received														
Florida Engineer or Architect Name who developed the Evaluation Report	Robert J.M. Nieminen														
Florida License	PE-59166														
Quality Assurance Entity	Underwriters Laboratories Inc.														
Quality Assurance Contract Expiration Date	09/20/2012														
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received														
Certificate of Independence	FL5680_R4_COI_Trinity_ERD_CI_Nieminen.pdf														
Referenced Standard and Year (of Standard)	<table> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ASTM D6162</td> <td>2000</td> </tr> <tr> <td>ASTM D6163</td> <td>2000</td> </tr> <tr> <td>ASTM D6164</td> <td>2005</td> </tr> <tr> <td>ASTM D6222</td> <td>2002</td> </tr> <tr> <td>ASTM D6298</td> <td>2005</td> </tr> <tr> <td>FM 4470</td> <td>1992</td> </tr> </tbody> </table>	Standard	Year	ASTM D6162	2000	ASTM D6163	2000	ASTM D6164	2005	ASTM D6222	2002	ASTM D6298	2005	FM 4470	1992
Standard	Year														
ASTM D6162	2000														
ASTM D6163	2000														
ASTM D6164	2005														
ASTM D6222	2002														
ASTM D6298	2005														
FM 4470	1992														

FM 4474 2004
TAS 114 2011

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 11/30/2011
Date Validated 12/06/2011
Date Pending FBC Approval 12/21/2011
Date Approved 01/31/2012

Summary of Products

FL #	Model, Number or Name	Description
5680.1	GAF Modified Bitumen Roof Systems	SBS and APP Modified Bitumen Roof Systems
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-465 Other: 1.) The DP noted herein pertains to one specific system. Refer to the ER Appendix for all systems and max. design pressures. 2.) Refer to ER Section 5 for Limits of Use.		Installation Instructions FL5680_R4_IL_A1_er113011FINAL_GAF_MOD_BIT_FL5680-R4.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL5680_R4_AE_er113011FINAL_GAF_MOD_BIT_FL5680-R4.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:





EXTERIOR RESEARCH & DESIGN, LLC.
Certificate of Authorization #9503
353 Christian Street, Unit 13
Oxford, CT 06478
PHONE: (203) 262-9245
FAX: (203) 262-9243

EVALUATION REPORT

GAF
1361 Alps Road
Wayne, NJ 07470

Evaluation Report 01506.11.05-R4
FL5680-R4
Date of Issuance: 11/07/2005
Revision 4: 11/30/2011

SCOPE:

This Evaluation Report is issued under Rule 9N-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been designed to comply with the 2010 Florida Building Code.

DESCRIPTION: GAF Modified Bitumen Roof Systems

LABELING: Each unit shall bear labeling in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "TRINITY|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report 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 Evaluation Report consists of pages 1 through 6, plus a 43-page Appendix.

Prepared by:

Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983



The facimile seal appearing was authorized by Robert Nieminen, P.E. on 11/30/2011. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client.

CERTIFICATION OF INDEPENDENCE:

1. Exterior Research & Design, LLC. d/b/a Trinity|ERD 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.
2. Exterior Research & Design, LLC. d/b/a Trinity|ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports 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.



ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing

Sub-Category: Modified Bitumen Roof Systems

Compliance Statement: Modified Bitumen Roof Systems, as produced by GAF, have demonstrated compliance with the following sections of the Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1504.3.1	Wind	FM 4474	2004
1515.1.1	Wind	TAS 114	2011
1504.7	Impact	FM 4470	1992
1507.11.2	Physicals	ASTM D6162	2000
1507.11.2	Physicals	ASTM D6163	2000
1507.11.2	Physicals	ASTM D6164	2005
1507.11.2	Physicals	ASTM D6222	2002
1507.11.2	Physicals	ASTM D6298	2005

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ACRC (TST4671)	TAS 114	ACRC 06-041	11/10/2006
ACRC (TST4671)	TAS 114	ACRC 06-042	11/14/2006
ACRC (TST4671)	TAS 114	ACRC 06-043	11/16/2006
ACRC (TST4671)	TAS 114	ACRC 006-044	11/16/2006
ACRC (TST4671)	TAS 114	ACRC 06-048	12/21/2006
ACRC (TST4671)	TAS 114	ACRC 06-049	12/22/2006
ACRC (TST4671)	TAS 114	ACRC 06-050	12/28/2006
ACRC (TST4671)	TAS 114	ACRC 07-006	01/17/2007
ACRC (TST4671)	TAS 114	ACRC 07-018	04/20/2007
ACRC (TST4671)	TAS 114	ACRC 07-028	05/08/2007
ACRC (TST4671)	TAS 114	ACRC 07-030	05/09/2007
ACRC (TST4671)	TAS 114	ACRC 07-032	05/10/2007
ACRC (TST4671)	TAS 114	ACRC 07-033	05/10/2007
ACRC (TST4671)	TAS 114	ACRC 07-041	08/31/2007
ACRC (TST4671)	TAS 114	ACRC 07-044	09/05/2007
ACRC (TST4671)	TAS 114	ACRC 07-047	09/07/2007
ACRC (TST4671)	TAS 114	ACRC 07-081	01/10/2008
ACRC (TST4671)	TAS 114	ACRC 07-082	01/11/2008
ACRC (TST4671)	TAS 114	ACRC 08-024	04/18/2008
ACRC (TST4671)	TAS 114	ACRC 08-034	05/19/2008
ACRC (TST4671)	TAS 114	ACRC 08-044	07/01/2008
ERD (TST6049)	TAS 114/FM4474	01516.04.06	04/20/2006
ERD (TST6049)	TAS 114/FM4474	4482.10.97-1	12/02/2006
ERD (TST6049)	TAS 114/FM4474	G4280LAB.10.06-R1	12/06/2007
ERD (TST6049)	Physical Properties	G6850.08.08	08/01/2008
ERD (TST6049)	Physical Properties	G6850.08.08-1	08/29/2008
ERD (TST6049)	Physical Properties	G6850.10.08	10/06/2008
ERD (TST6049)	Physical Properties	G6850.11.08	11/05/2008
ERD (TST6049)	Physical Properties	G12210.06.09	08/03/2009
ERD (TST6049)	Physical Properties	G12210.01.10	01/08/2010
ERD (TST6049)	Physical Properties	G31360.03.10	03/31/2010
ERD (TST6049)	Physical Properties	G33470.01.11	01/13/2011
ERD (TST6049)	TAS 114/FM4474	G36780.07.11	07/08/2011
Florida TEC (TST7393)	TAS 114	08-050187	04/28/2008



Florida TEC (TST7393)	TAS 114	08-050188	04/28/2008
Florida TEC (TST7393)	TAS 114	08-070077	07/25/2008
Florida TEC (TST7393)	TAS 114	08-070084	07/25/2008
Florida TEC (TST7393)	TAS 114	08-050181R	04/01/2009
Florida TEC (TST7393)	TAS 114	08-050186	10/14/2008
Florida TEC (TST7393)	TAS 114	08-070126	10/14/2008
Florida TEC (TST7393)	TAS 114	08-070122	10/14/2008
Florida TEC (TST7393)	TAS 114	08-070127	10/14/2008
Florida TEC (TST7393)	TAS 114	08-070077	11/17/2008
FM Approvals (TST1867)	FM 4470	3007500	06/15/2000
FM Approvals (TST1867)	FM 4470	3005640	11/09/2000
FM Approvals (TST1867)	FM 4470	3008178	12/27/2000
FM Approvals (TST1867)	FM 4470	3010215	03/01/2001
FM Approvals (TST1867)	FM 4470	3009788	03/28/2001
FM Approvals (TST1867)	FM 4470	3011140	08/14/2001
FM Approvals (TST1867)	FM 4470	3013614	05/06/2002
FM Approvals (TST1867)	FM 4470	3013788	01/10/2003
FM Approvals (TST1867)	FM 4470	3014547	05/22/2003
FM Approvals (TST1867)	FM 4470	3014692	08/05/2003
FM Approvals (TST1867)	FM 4470	3014960	03/05/2004
FM Approvals (TST1867)	FM 4470/4474	3017250	04/05/2004
FM Approvals (TST1867)	FM 4470/4474	3022139	05/26/2005
FM Approvals (TST1867)	FM 4470/4474	3022508	07/20/2005
FM Approvals (TST1867)	FM 4470/4474	3025023	12/14/2005
FM Approvals (TST1867)	FM 4470/4474	3023458	07/18/2006
FM Approvals (TST1867)	FM 4470/4474	3028039	09/11/2006
FM Approvals (TST1867)	FM 4470/4474	3024805	11/20/2006
FM Approvals (TST1867)	FM 4470/4474	3032388	10/30/2008
FM Approvals (TST1867)	FM 4470/4474	3032695	10/30/2008
FM Approvals (TST1867)	FM 4470/4474	3032943	11/06/2008
FM Approvals (TST1867)	FM 4470/4474	3032811	12/11/2008
FM Approvals (TST1867)	FM 4470/4474	3035864	06/03/2009
FM Approvals (TST1867)	FM 4470/4474	3035140	08/10/2009
FM Approvals (TST1867)	FM 4470/4474	3036225	08/10/2009
FM Approvals (TST1867)	FM 4470/4474	3034978	09/17/2009
FM Approvals (TST1867)	FM 4470/4474	3038128	07/26/2010
FM Approvals (TST1867)	FM 4470/4474	3040738	11/16/2010
FM Approvals (TST1867)	FM 4470/4474	3041535	06/08/2011
IRT (TST7408)	TAS 114	00001	03/30/2000
IRT (TST7408)	TAS 114	00002	03/30/2000
IRT (TST7408)	TAS 114	01-039	01/24/2002
IRT (TST7408)	TAS 114	02-005	01/24/2002
IRT (TST7408)	TAS 114	02-014	03/26/2002
IRT (TST7408)	TAS 114	03-003	04/21/2003
IRT (TST7408)	TAS 114	03-004	04/21/2003
IRT (TST7408)	TAS 114	04-008	01/26/2004
Miami-Dade (CER1592)	Various	Current NOAs	Current
MTI (TST2508)	Physical Properties	AX04C9A	06/05/2009
MTI (TST2508)	Physical Properties	RX30C9C	07/09/2009
PRI (TST5878)	Physical Properties	GAF-027-02-01	03/26/2002
UL (QUA1743)	Quality Assurance	Inspection Report, R1306	09/20/2011

4. PRODUCT DESCRIPTION:

This Evaluation Report covers GAF Modified Bitumen Roof Systems installed in accordance with GAF published installation instructions and the Limitations / Conditions of Use herein. The following products make up the subject systems.

Table 1: Roll-Goods for GAF Modified Bitumen Roof Systems

Type	Product	Specification		
		Reference	Type	Grade
Base Sheet	GAFGLAS #75 Base Sheet	ASTM D4601	II	N/A
	GAFGLAS #80 Ultima Base Sheet	ASTM D4601	II	N/A
	Ruberoid Modified Base Sheet	ASTM D4601	II	N/A
	GAFGLAS Stratavent Eliminator Nailable	ASTM D4897	II	N/A
	GAFGLAS Stratavent Eliminator Perforated	ASTM D4897	II	N/A
	Liberty MA Mechanically Attached Base Sheet	Proprietary	N/A	N/A
Ply Sheet	GAFGLAS Ply 4	ASTM D2178	IV	N/A
	GAFGLAS FlexPly 6	ASTM D2178	VI	N/A
	GAFGLAS FlexPly 6 5L	ASTM D2178	VI	N/A
Smooth Surfaced Membranes:	Liberty SBS Self-Adhering Base/Ply Sheet	ASTM D1970	N/A	N/A
	Ruberoid Dual Smooth	ASTM D6162	II	S
	Ruberoid 20	ASTM D6163	I	S
	Ruberoid SBS Heat-Weld 25	ASTM D6163	I	S
	Ruberoid SA Base/Ply Sheet	ASTM D6163	I	S
	Ruberoid SBS Heat-Weld Smooth	ASTM D6164	I	S
	Ruberoid MOP Smooth	ASTM D6164	I	S
	Ruberoid MOP Smooth 1.5	ASTM D6164	I	S
	Ruberoid MOP Plus Smooth	ASTM D6164	II	S
Ruberoid TORCH Smooth	ASTM D6222	I	S	
Granule Surfaced Membranes:	Ruberoid Dual FR	ASTM D6162	II	G
	Ruberoid 30	ASTM D6163	I	G
	Ruberoid 30 FR	ASTM D6163	I	G
	Ruberoid EnergyCap SBS 30 FR	ASTM D6163	I	G
	Ruberoid SA Cap Sheet	ASTM D6164	I	G
	Ruberoid SA FR Cap Sheet	ASTM D6164	I	G
	Ruberoid MOP 170 FR	ASTM D6164	I	G
	Ruberoid MOP Granule	ASTM D6164	I	G
	RoofMatch SBS Modified Granular	ASTM D6164	I	G
	Ruberoid SBS Heat-Weld Granule	ASTM D6164	I	G
	Ruberoid SBS Heat-Weld 170 FR	ASTM D6164	I	G
	Ruberoid MOP FR	ASTM D6164	II	G
	Ruberoid MOP Plus	ASTM D6164	II	G
	Ruberoid EnergyCap MOP FR	ASTM D6164	II	G
	Ruberoid SBS Heat-Weld Plus	ASTM D6164	II	G
	Ruberoid SBS Heat-Weld Plus FR	ASTM D6164	II	G
	Ruberoid EnergyCap SBS Heat-Weld Plus FR	ASTM D6164	II	G
	Ruberoid TORCH Granule	ASTM D6222	I	G
	Ruberoid TORCH 180	ASTM D6222	I	G
	RoofMatch APP Modified Granular	ASTM D6222	I	G
	Ruberoid TORCH FR	ASTM D6222	II	G
	Ruberoid EnergyCap TORCH Granule FR	ASTM D6222	I	G
	Ruberoid EnergyCap TORCH Plus FR	ASTM D6222	II	G
Liberty SBS Self-Adhering Cap Sheet	Proprietary	N/A	N/A	
Foil Surfaced Membranes:	Ruberoid UltraClad SBS	ASTM D6298	N/A	N/A

5. LIMITATIONS:

- 5.1 This Evaluation Report is not for use in HVHZ jurisdictions.
- 5.2 Refer to a current Roofing Materials Directory for fire ratings of this product.
- 5.3 For steel deck installations, foam plastic insulation shall be separated from the building interior in accordance with FBC 2603.4 unless the exceptions stated in FBC 2603.4.1 and 2603.6 apply.
- 5.4 Unless otherwise noted in Appendix 1, roof decking and its attachment shall be specified and installed to meet project design criteria to the satisfaction of the AHJ.
- 5.5 For recover installations, the existing roof shall be examined in accordance with FBC 1510.
- 5.6 For mechanically attached insulation or membrane or strip-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16. Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are RAS 117 and FM LPDS 1-29. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.1.5.1(a) of FM LPDS 1-29 for Zone 2/3 enhancements.
- 5.7 For fully-adhered insulation, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems
- 5.8 For mechanically attached insulation or membrane 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 and analysis shall be in accordance with TAS 105 or ANSI/SPRI FX-1.
- 5.9 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 ASTM E907, FM LPDS 1-52 or TAS 124 shall be conducted on mock-ups of the proposed new roof assembly.
- 5.10 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 AHJ, as documented through field uplift testing in accordance with ASTM E907, FM LPDS 1-52 or TAS 124.
- 5.11 Metal edge attachment (except gutters), shall be designed and installed for wind loads in accordance with FBC Chapter 16 and tested for resistance in accordance with ANSI/SPRI ES-1 or RAS 111, except the basic wind speed shall be determined from FBC Figure 1609.
- 5.12 All products in the roof assembly shall have quality assurance audit in accordance with the FBC and F.A.C. Rule 9N-3.

6. INSTALLATION:

- 6.1 GAF Modified Bitumen Roof Systems shall be installed in accordance with GAF Materials Corporation's published installation instructions, subject to the Limitations / Conditions of Use noted herein.
- 6.2 System attachment requirements for wind load resistance are set forth in Appendix 1. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind loads.



7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order 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 9N-3 QA requirements.

9. QUALITY ASSURANCE ENTITY:

Underwriters Laboratories – QUA1743; (847) 664-3281

- THE 43-PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -



APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

Table	Deck	Application	Type	Description	Page
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1B-1	Wood	New, Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	4-5
1B-2	Wood	New, Reroof (Tear-Off), Recover	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	5
1C	Wood	New, Reroof (Tear-Off), Recover	C	Mech. Attached Insulation, Bonded Roof Cover	6
1D	Wood	New, Reroof (Tear-Off), Recover	D	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	7
1E-1	Wood	New, Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	8
1E-2	Wood	New, Reroof (Tear-Off), Recover	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	9
2A	Steel or Conc.	New, Reroof (Tear-Off), Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	10-11
2B-1	Steel or Conc.	New, Reroof (Tear-Off), Recover	C	Mech. Attached Insulation, Bonded Roof Cover	12-15
2B-2	Steel or Conc.	New, Reroof (Tear-Off), Recover	C-1	Bonded and Mech. Attached Insulation, Bonded Roof Cover	15
2C	Steel or Conc.	New, Reroof (Tear-Off), Recover	D	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	16-17
3A-1	Concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover (Base Insulation Layer Only)	18-19
3A-2	Concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover (Base and Top Insulation Layers)	20-25
3A-3	Concrete	New, Reroof (Tear-Off)	A-1a	Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	26
3B	Concrete	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	27
4A	LWIC	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	28-30
4B	LWIC	New, Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	31-32
4C	LWIC	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	33
5A	CWF	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	34
5B	CWF	New, Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	35
5C	CWF	New, Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	35
6A	Gypsum	Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	36
6B	Gypsum	Reroof (Tear-Off)	C	Mech. Attached Insulation, Bonded Roof Cover	36
6C	Gypsum	Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	37
6D	Gypsum	Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	37
7A-1	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover (Base Insulation Layer Only)	38-39
7A-2	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover (Base and Top Insulation Layers)	40-43



The following notes apply to the systems outlined herein:

1. Roof decks shall be in accordance with FBC requirements to the satisfaction of the AHJ. Wind load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
2. Unless otherwise noted, fasteners and stress plates for insulation or base sheet attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:
 - Wood: Drill-Tec #12 Fastener or Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec Accutrac Plate, Drill-Tec ASAP 3S or Drill-Tec Heavy Duty ASAP 3S. Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment.
 - Steel: Drill-Tec #12 Fastener, Drill-Tec #14 Fastener or Drill-Tec XHD Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec Accutrac Plate. Minimum ¾-inch steel penetration and engage the top flute of the steel deck.
 - Concrete: Drill-Tec #14 Fastener or Drill-Tec CD-10 with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec Accutrac Plate or Drill-Tec Heavy Duty ASAP 3S. Minimum 1-inch embedment into pilot hole in accordance with the fastener manufacturer's published installation instructions.
3. Unless otherwise noted, insulation may be any one layer or combination of polyisocyanurate, polystyrene, wood fiberboard, perlite, DensDeck, DensDeck Prime, DensDeck DuraGuard, MonoBoard, TopRock DD, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board that meets the QA requirements of F.A.C. Rule 9N-3 and is documented as meeting FBC 1505.1 and, for foam plastic, FBC 2603.4.1 or 2603.6, when installed with the roof cover.
4. Minimum 200 psi, minimum 2-inch thick lightweight insulating concrete may be substituted for rigid insulation board for System Type D (mechanically attached base sheet, bonded roof cover), whereby the base sheet fasteners are installed through the LWIC to engage the structural steel or concrete deck. The structural deck shall be of equal or greater configuration to the steel and concrete deck listings.
5. 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.
 - Hot asphalt (HA): Full coverage at 25-30 lbs/square
 - OMG OlyBond 500 (OB500): Continuous ¾-inch wide ribbons, 12-inch o.c. using PaceCart or SpotShot. *Note: OlyBond Classic or OlyBond 500 Green may be used where OlyBond 500 is referenced.*
 - 3M CR-20: Continuous 2.5 to 3-inch wide ribbons, 12-inch o.c. *Note: TITASET may be used where 3M CR-20 is referenced.*
 - *Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, adhesive ribbons shall be staggered from layer-to-layer a distance of one-half the ribbon spacing.*
 - *Note: 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.*
6. 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.
 - Hot asphalt (HA): MDP -240.0 psf (Min. 0.5-inch thick)
 - OMG OlyBond 500 (OB500): MDP -45.0 psf (Min. 0.5-inch thick EnergyGuard RM)
 - OMG OlyBond 500 (OB500): MDP -187.5 psf (Min. 0.5-inch thick EnergyGuard)
 - OMG OlyBond 500 (OB500): MDP -315.0 psf (Min. 0.5-inch thick EnergyGuard RN)
 - OMG OlyBond 500 (OB500): MDP -485.0 psf (Min. 0.5-inch thick EnergyGuard RA)
 - 3M CR-20: MDP -117.5 psf (Min. 1.0-inch thick)
7. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
8. For mechanically attached components or partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16, and Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are RAS 117 and FM LPDS 1-29. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.1.5.1(a) of FM LPDS 1-29 for Zone 2/3 enhancements.



9. For fully bonded assemblies, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.
10. 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 TAS 105 or ANSI/SPRI FX-1.
11. For existing substrates in a bonded recover installation, the existing roof surface shall be examined for compatibility and bond performance with the selected adhesive, and the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the AHJ, as documented through field uplift testing in accordance with ASTM E907, FM LPDS 1-52 or ANSI/SPRI IA-1.
12. For Recover Applications using System Type D, the insulation is optional. Alternatively, min. 0.5-inch EnergyGuard High Density Fiberboard or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board, or min. 1.0-inch EnergyGuard, EnergyGuard RA, EnergyGuard RN or EnergyGuard Ultra may be used as a separator board, preliminarily attached prior to base sheet installation. The existing roof system shall be suitable for a recover application.
13. Unless otherwise noted, refer to the following references for bonded base, ply or cap sheet applications.

Reference	Layer	Material	Application
BP-AA (Base/ Ply sheets, Asphalt-Applied)	Base:	GAFGLAS #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid Modified Base Sheet	Hot asphalt at 25 lbs/square.
	Ply:	GAFGLAS Ply 4, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 5L	
BP-CA (Base/ Ply sheets, Cold-Applied)	Base:	GAFGLAS #75 Base Sheet	MATRIX 102 SBS Membrane Adhesive at 1.5 gal/sq.
B-LL (Base sheet, Loose-Laid)	Base:	GAFGLAS Stratavent Eliminator Perforated	Loose laid
SBS-AA (SBS, Asphalt-Applied)	Base or Ply:	Ruberoid 20, Ruberoid Dual Smooth, Ruberoid MOP Smooth, Ruberoid MOP Smooth 1.5, Ruberoid MOP Plus Smooth	Hot asphalt at 25 lbs/square.
	Cap:	Ruberoid Dual Smooth, Ruberoid 30, Ruberoid 30 FR, Ruberoid EnergyCap SBS 30 FR, Ruberoid Dual FR, Ruberoid MOP Smooth, Ruberoid MOP Smooth 1.5, Ruberoid MOP Plus Smooth Ruberoid MOP 170 FR, Ruberoid MOP Granule, RoofMatch SBS Modified Granular, Ruberoid MOP FR, Ruberoid MOP Plus, Ruberoid EnergyCap MOP FR, Ruberoid UltraClad SBS	
SBS-CA (SBS, Cold-Applied)	Base or Ply:	Ruberoid 20	MATRIX 102 SBS Membrane Adhesive at 1.5 gal/sq.
	Cap:	Ruberoid 30 FR, Ruberoid EnergyCap SBS 30 FR, Ruberoid MOP 170 FR, Ruberoid MOP FR	
SBS-TA (SBS, Torch-Applied)	Base or Ply:	Ruberoid SBS Heat-Weld 25, Ruberoid SBS Heat-Weld Smooth	Torch applied
	Cap:	Ruberoid SBS Heat-Weld Granule, Ruberoid SBS Heat-Weld 170 FR, Ruberoid SBS Heat-Weld Plus, Ruberoid SBS Heat-Weld Plus FR, Ruberoid EnergyCap SBS Heat-Weld Plus FR	
APP-TA (APP, Torch-Applied)	Base or Ply:	Ruberoid TORCH Smooth	Torch applied
	Cap:	Ruberoid TORCH Granule, Ruberoid TORCH 180, RoofMatch APP Modified Granular, Ruberoid TORCH FR, Ruberoid EnergyCap APP 250 FR, Ruberoid EnergyCap TORCH Granule FR, Ruberoid EnergyCap TORCH Plus FR	
SBS-SA (self-adhering)	Base or Ply:	Liberty SBS Self-Adhering Base/Ply Sheet, Ruberoid SA Base/Ply Sheet	Self-adhered
	Cap:	Liberty SBS Self-Adhering Cap Sheet, Ruberoid SA Cap Sheet, Ruberoid SA FR Cap Sheet	

14. **"MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind loads.**



TABLE 1A: WOOD DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
W-1.	Min. 19/32-inch plywood or OSB attached 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d common nails	One or more layers min. 1.5-inch EnergyGuard (tapered or flat stock)	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5
W-2.	Min. 19/32-inch plywood or OSB attached 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d common nails	One or more layers min. 1.5-inch EnergyGuard (tapered or flat stock)	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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-1: WOOD DECKS – NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:												
W-3.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable, Ruberoid 20, Ruberoid SBS Heat Weld Smooth or SBS Heat Weld 25	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	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.5-inch EnergyGuard HD Fiberboard or EnergyGuard Perlite (homogenous)	HA	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-45.0
W-4.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable, Ruberoid 20, Ruberoid SBS Heat Weld Smooth or SBS Heat Weld 25	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	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.5-inch EnergyGuard HD Fiberboard or EnergyGuard Perlite (homogenous)	HA	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-52.5



TABLE 1B-1: WOOD DECKS – NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
W-5.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #80 Ultima Base Sheet, Ruberoid 20, Ruberoid MOP Smooth	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	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.5-inch EnergyGuard HD Fiberboard or EnergyGuard Perlite (homogenous)	HA	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-60.0
SELF-ADHEIRNG SYSTEMS:												
W-6.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable	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	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	SBS-SA	(Optional) SBS-SA, SBS-TA or APP-TA	SBS-SA, SBS-TA or APP-TA	-45.0

TABLE 1B-2: WOOD DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:												
W-7.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable, Ruberoid 20, Ruberoid SBS Heat Weld Smooth or SBS Heat Weld 25	See Note 2	12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.5-inch EnergyGuard HD Fiberboard or EnergyGuard Perlite (homogenous)	HA	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-45.0
W-8.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable, Ruberoid 20, Ruberoid SBS Heat Weld Smooth or SBS Heat Weld 25	See Note 2	12-inch o.c. at the min. 2-inch lap and 12-inch o.c. in three, equally spaced, staggered center rows	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.5-inch EnergyGuard HD Fiberboard or EnergyGuard Perlite (homogenous)	HA	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-60.0
W-9.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable, Ruberoid 20, Ruberoid SBS Heat Weld Smooth or SBS Heat Weld 25	See Note 2	8-inch o.c. at the min. 2-inch lap and 8-inch o.c. in three, equally spaced, staggered center rows	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.5-inch EnergyGuard HD Fiberboard or EnergyGuard Perlite (homogenous)	HA	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-75.0



TABLE 1C: WOOD DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:									
W-10.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	Min. 0.75-inch, one or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Composite or EnergyGuard RA Composite	See Note 2	1 per 3 ft2	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-45.0
W-11.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	Min. 0.75-inch, one or more layers, any combination, loose laid	Min. 1-inch EnergyGuard HD Fiberboard or min. 0.75-inch EnergyGuard Perlite (homogeneous)	See Note 2	1 per 2 ft2	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-45.0
SELF-ADHERING SYSTEMS:									
W-12.	Min. 15/32-inch plywood attached 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d common nails	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard	See Note 2 (HD Fasteners only)	1 per 2 ft2	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0
W-13.	Min. 15/32-inch plywood attached 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d common nails	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck DuraGuard	See Note 2 (HD Fasteners only)	1 per 2 ft2	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5



TABLE 1D: WOOD DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Insulation Layer(s)		Base or Anchor Sheet			Roof Cover		MDP (psf)
		Type	Attach	Base	Fasteners	Attach	Ply	Cap	
CONVENTIONAL SYSTEMS:									
W-14.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	Min. 1-inch, one or more layers, any combination	Prelim attach	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Eliminator Nailable, Ruberoid 20	See 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	SBS-AA, SBS-TA, SBS-CA, APP-TA	-45.0
W-15.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	Min. 1-inch, one or more layers, any combination	Prelim attach	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Eliminator Nailable, Ruberoid 20	See 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	SBS-AA, SBS-TA, SBS-CA, APP-TA	-60.0
W-16.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	Min. 1-inch, one or more layers, any combination	Prelim attach	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Eliminator Nailable, Ruberoid 20	See 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	SBS-AA, SBS-TA, SBS-CA, APP-TA	-75.0



TABLE 1E-1: WOOD DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY FASTEDED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Sheet			Roof Cover		MDP (psf)
		Type	Faster	Attachment	Ply	Cap	
CONVENTIONAL SYSTEMS:							
W-17.	Min. 19/32-inch plywood attached 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable, Ruberoid 20, Ruberoid SBS Heat Weld Smooth or SBS Heat Weld 25	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
W-18.	Min. 19/32-inch plywood attached 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable, Ruberoid 20, Ruberoid SBS Heat Weld Smooth or SBS Heat Weld 25	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-19.	Min. 19/32-inch plywood attached 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #80 Ultima Base Sheet, Ruberoid 20, Ruberoid MOP 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	-60.0
SELF-ADHERING SYSTEMS:							
W-20.	Min. 19/32-inch plywood attached 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d common nails	Liberty MA Mechanically Attached Base 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-21.	Min. 15/32-inch plywood attached 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d common nails	Liberty MA Mechanically Attached Base 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 1E-2: WOOD DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY FASTEDED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Sheet			Roof Cover		MDP (psf)
		Type	Faster	Attachment	Ply	Cap	
CONVENTIONAL SYSTEMS:							
W-22.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable, Ruberoid 20, Ruberoid SBS Heat Weld Smooth or SBS Heat Weld 25	See 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-23.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable, Ruberoid 20, Ruberoid SBS Heat Weld Smooth or SBS Heat Weld 25	See 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-24.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #80 Ultima Base Sheet Base, Ruberoid 20 or Ruberoid MOP Smooth	See 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-25.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d ring shank nails	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable, Ruberoid 20, Ruberoid SBS Heat Weld Smooth or SBS Heat Weld 25	See 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	-75.0
W-26.	Min. 19/32-inch plywood 6-inch o.c. to wood supports at max. 2 ft o.c. using #8 wood screws	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Ply 4, FlexPly 6 or Stratavent Eliminator Nailable, Ruberoid 20, Ruberoid SBS Heat Weld Smooth or SBS Heat Weld 25	See 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 SYSTEMS:							
W-27.	Min. 19/32-inch plywood at max. 48-inch spans with blocked edges, attached 6-inch o.c. with 8d ring shank nails at intermediate supports and 4-inch o.c. with 10d ring shank nails at board edges.	StormSafe Anchor Sheet	See Note 2 (AccuTrac 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 <i>Note: Seams sealed with TopCoat SB900 or Flexseal</i>	-60.0
W-28.	Min. 15/32-inch plywood attached 6-inch o.c. to wood supports at max. 2 ft o.c. using 8d common nails	Liberty MA Mechanically Attached Base Sheet	See Note 2 (HD Fasteners 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 2A: STEEL OR CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:										
SC-1	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 4.0 ft ²	Optional min. 1.5-inch EnergyGuard or EnergyGuard Ultra followed by GAFTEMP HD Fiberboard	HA, CR-20, OB500	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
SC-2	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.625-inch DensDeck Prime	See Note 2	1 per 4.0 ft ²	Min. 1.5-inch EnergyGuard followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	APP-TA	(Optional) APP-TA	APP_TA	-45.0*
SC-3	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck Prime	See Note 2	1 per 2.67 ft ²	Min. 1.5-inch EnergyGuard followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	APP-TA	(Optional) APP-TA	APP_TA	-45.0*
SC-4	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard	See Note 2	1 per 2 ft ²	Optional additional layers of base insulation; Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA, CR-20, 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-5	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch EnergyGuard	See Note 2	1 per 4.0 ft ²	Optional additional layers of base insulation; Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA, CR-20, 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-6	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	See Note 2	1 per 2 ft ²	Min. 0.5-inch EnergyGuard High Density Roof Fiberboard	HA, CR-20 or OB500	BP-AA, SBS-AA	None	SBS-CA	-45.0*
SC-7	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch EnergyGuard	See Note 2	1 per 4.0 ft ²	Min. 0.5-inch EnergyGuard Perlite Recover Board or min. 0.75-inch EnergyGuard Perlite (homogeneous) or Structodek HD Fiberboard	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-45.0*
SC-8	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard	See Note 2	1 per 2.0 ft ²	Min. 0.5-inch EnergyGuard Perlite Recover Board or min. 0.75-inch EnergyGuard Perlite (homogeneous) or Structodek HD Fiberboard	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-45.0*
SC-9	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard	See Note 2	1 per 4.0 ft ²	Min. 1.5-inch EnergyGuard followed by min. 0.75-inch EnergyGuard Perlite (homogeneous)	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-45.0*



TABLE 2A: STEEL OR CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Base	Ply	Cap	
SC-10	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.2-inch EnergyGuard	See Note 2	1 per 4.0 ft ²	Min. 0.5-inch Structodek HD Fiberboard	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-45.0*
SC-11	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch EnergyGuard	See Note 2	1 per 2 ft ²	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	HA, CR-20, 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
SC-12	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch EnergyGuard	See Note 2	1 per 1.45 ft ²	Min. 1.0-inch EnergyGuard Perlite (homogeneous)	HA	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA or SBS-TA	-60.0
SC-13	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch EnergyGuard	See Note 2	1 per 1.6 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA, OB500 or CR-20	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
SC-14	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch EnergyGuard	See Note 2	1 per 1.45 ft ²	Min. 0.5-inch Structodek HD Fiberboard	HA	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA or SBS-TA	-67.5
SC-15	Min. 22 ga. type B, Grade 80 steel or structural concrete	Min. 1.5-inch EnergyGuard	See Note 2	1 per 1.3 ft ²	Min. 0.5-inch GAFTEMP HD Fiberboard	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-90.0
SELF-ADHERING SYSTEMS:										
SC-16	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch EnergyGuard	See Note 2	1 per 4.0 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA, CR-20, OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*



TABLE 2B-1: STEEL OR CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:									
SC-17	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime	See Note 2	1 per 4.0 ft ²	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-30.0*
SC-18	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime	See Note 2	1 per 3.2 ft ²	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-37.5*
SC-19	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.625-inch DensDeck Prime	See Note 2	1 per 4.0 ft ²	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
SC-20	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime	See Note 2	1 per 2.13 ft ²	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
SC-21	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	See Note 2	1 per 3.2 ft ²	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-45.0*
SC-22	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck, DensDeck Prime or DensDeck DuraGuard	See Note 2	1 per 2.0 ft ²	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA, SBS-TA, APP-TA	-45.0*
SC-23	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek HD Fiberboard	See Note 2	1 per 2.0 ft ²	SBS-AA	(Optional) SBS-AA	SBS-AA, SBS-TA	-45.0*
SC-24	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 4.0 ft ²	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-25	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 1.6 ft ²	SBS-AA, SBS-TA, APP-TA	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-52.5
SC-26	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime	See Note 2	1 per 1.45 ft ²	SBS-AA, SBS-TA, APP-TA	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-52.5
SC-27	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 1.78 ft ²	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-52.5
SC-28	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2 (#14 only)	1 per 1.78 ft ²	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0



TABLE 2B-1: STEEL OR CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
SC-29	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 1.33 ft ²	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-60.0
SC-30	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek HD Fiberboard	See Note 2	1 per 1.0 ft ²	SBS-AA	(Optional) SBS-AA or SBS-TA	SBS-AA, SBS-TA	-67.5
SC-31	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 1.0 ft ²	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-97.5
SC-32	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	See Note 2 (#14 only)	1 per 1.0 ft ²	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-105.0
SC-33	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2 (#14 only)	1 per 1.0 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-105.0
SC-34	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2 (#14 only)	1 per 1.0 ft ²	SBS-TA	(Optional) SBS-TA	SBS-TA	-120.0
SELF-ADHERING SYSTEMS:									
SC-35	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 3.2 ft ²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, SBS-TA, APP-TA	-30.0*
SC-36	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck DuraGuard	See Note 2	1 per 4.0 ft ²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, SBS-TA, APP-TA	-30.0*
SC-37	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuardor EnergyGuard Ultra	See Note 2	1 per 4.0 ft ²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, SBS-TA, APP-TA	-37.5*
SC-38	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board or	See Note 2	1 per 2.7 ft ²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, SBS-TA, APP-TA	-45.0*
SC-39	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck DuraGuard	See Note 2	1 per 2.7 ft ²	SBS-SA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-45.0*
SC-40	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck DuraGuard	See Note 2	1 per 2.0 ft ²	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
SC-41	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuardor EnergyGuard Ultra	See Note 2	1 per 2.0 ft ²	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, SBS-TA, APP-TA	-45.0*



TABLE 2B-1: STEEL OR CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
SC-42	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuard or EnergyGuard Ultra	See Note 2	1 per 3.2 ft ²	SBS-SA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-45.0*
SC-43	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuard or EnergyGuard Ultra	See Note 2	1 per 2.0 ft ²	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
SC-44	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuard or EnergyGuard Ultra	See Note 2	1 per 1.45 ft ²	SBS-SA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-60.0
VENTING SYSTEMS:									
SC-45	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard	See Note 2	1 per 2.0 ft ²	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-45.0*
SC-46	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuard RM	See Note 2	1 per 4.0 ft ²	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-45.0*
SC-47	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Ultra	See Note 2	1 per 3.2 ft ²	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-45.0*
SC-48	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuard Ultra	See Note 2	1 per 2.0 ft ²	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-60.0
SC-49	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuard	See Note 2	1 per 1.45 ft ²	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-67.5
SC-50	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuard Ultra	See Note 2	1 per 1.45 ft ²	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-75.0
SC-51	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck	See Note 2	1 per 1.0 ft ²	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-82.5
SC-52	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 1.0 ft ²	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-97.5
COLD-APPLIED SYSTEMS:									
SC-53	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch EnergyGuard High Density Roof Fiberboard	See Note 2	1 per 2.0 ft ²	BP-CA	None	SBS-CA	-45.0*



TABLE 2B-1: STEEL OR CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
SC-54	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 4.0 ft ²	SBS-CA	None	SBS-CA	-45.0*

TABLE 2B-2: STEEL OR CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE C-1: BONDED AND MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			MDP (psf)
			Type	Adhesive & Fasteners	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:									
SC-55	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch EnergyGuard or EnergyGuard Ultra, Loose-Laid	Min. 0.25-inch DensDeck Prime	Adhesive: OB500 Fasteners: Drill-Tec XHD & Drill-Tec Plates	Adhesive: 12-inch o.c. Fasteners: 1 per 1.33 ft ²	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-97.5
SELF-ADHERING SYSTEMS:									
SC-56	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch EnergyGuard or EnergyGuard Ultra, Loose-Laid	Min. 0.25-inch DensDeck Prime	Adhesive: OB500 Fasteners: Drill-Tec XHD & Drill-Tec Plates	Adhesive: 12-inch o.c. Fasteners: 1 per 1.33 ft ²	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-97.5



TABLE 2C: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Insulation Layer(s)		Base or Anchor Sheet			Roof Cover		MDP (psf)
		Type	Attach	Base	Fasteners	Attach	Ply	Cap	
CONVENTIONAL SYSTEMS:									
SC-57	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAFGLAS #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Eliminator Nailable	See 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-58	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAFGLAS #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Eliminator Nailable	See 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-59	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAFGLAS #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Eliminator Nailable	See 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-60	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAFGLAS #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Eliminator Nailable	See 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-61	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAFGLAS #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Eliminator Nailable	See 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-62	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	Ruberoid Dual Smooth, Ruberoid MOP Smooth, Ruberoid MOP Smooth 1.5	See Note 2	18-inch o.c. at min. 3.5-inch laps	(Optional) SBS-TA	SBS-TA	-45.0*
SC-63	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	Ruberoid SBS Heat-Weld Smooth	Drill-Tec 2 in. Barbed Plates with Drill-Tec #12 or #14	12-inch o.c. within min. 4-inch laps. Laps are heat-welded, encapsulating the fastener row.	(Optional) SBS-TA	SBS-TA	-45.0*
SC-64	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	Ruberoid Dual Smooth, Ruberoid MOP Smooth, Ruberoid MOP Smooth 1.5	See Note 2	12-inch o.c. at min. 3.5-inch laps	(Optional) SBS-TA	SBS-TA	-52.5



TABLE 2C: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER
SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Insulation Layer(s)		Base or Anchor Sheet			Roof Cover		MDP (psf)
		Type	Attach	Base	Fasteners	Attach	Ply	Cap	
SC-65	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Eliminator Nailable	See 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-66	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	Ruberoid Dual Smooth, Ruberod MOP Smooth, Ruberoid MOP Smooth 1.5	See Note 2	6-inch o.c. at min. 3.5-inch laps	(Optional) SBS-TA	SBS-TA	-112.5
SELF-ADHERING SYSTEMS:									
SC-67	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	Liberty MA Mechanically Attached Base Sheet	See 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-TA or APP-TA	SBS-SA, SBS-TA or APP-TA	-30.0*
SC-68	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	Loose-laid	Liberty MA Mechanically Attached Base Sheet	See 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-69	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	Liberty SBS Self-Adhering Base/Ply Sheet	See 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*
COLD-APPLIED SYSTEMS:									
SC-70	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAFGLAS #75 Base Sheet	See 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-71	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Eliminator Nailable	See 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	SBS-CA	-82.5



TABLE 3A-1: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base Insulation Layer Only)

System No.	Deck (See Note 1)	Base Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS WITH BASE INSULATION LAYER ONLY							
C-1.	Concrete	Min. ¾-inch EnergyGuard Perlite (homogeneous)	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-140.0
C-2.	Concrete	Min. 0.5-inch EnergyGuard Perlite Recover Board	HA	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-3.	Concrete	Min. 0.5-inch EnergyGuard HD Fiberboard	HA	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.	Concrete	Min. 1.5-inch EnergyGuard Composite	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA, SBS-TA or APP-TA	-270.0
C-5.	Concrete	Min. 0.5-inch EnergyGuard HD Fiberboard	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-6.	Concrete	Min. 0.25-inch DensDeck Prime	OB500	SBS-TA	(Optional) One or more SBS-TA	SBS-TA	-300.0
C-7.	Concrete	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	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-8.	Concrete	Min. 0.25-inch DensDeck Prime	CR-20	SBS-TA	(Optional) One or more SBS-TA	SBS-TA	-245.0
SELF-ADHERING SYSTEMS WITH BASE INSULATION LAYER ONLY							
C-9.	Concrete	Min. 1.5-inch EnergyGuard Ultra	HA	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, SBS-TA, APP-TA	-90.0
C-10.	Concrete	Min. 0.25-inch DensDeck DuraGuard	HA	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, SBS-TA, APP-TA	-127.5
C-11.	Concrete	Min. 1.5-inch EnergyGuard	HA	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-172.5
C-12.	Concrete	Min. 1.5-inch EnergyGuard RN	HA	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-210.0
C-13.	Concrete	Min. 1.5-inch EnergyGuard RA	HA	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-217.5
C-14.	Concrete	Min 0.5-inch Structodek HD Fiberboard	OB500, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-110.0
C-15.	Concrete	Min. 0.25-inch DensDeck DuraGuard	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0



TABLE 3A-1: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base Insulation Layer Only)

System No.	Deck (See Note 1)	Base Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Base	Ply	Cap	
C-16.	Concrete	Min. 1.5-inch EnergyGuard	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
C-17.	Concrete	Min. 0.25-inch DensDeck	OB500	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-122.5
C-18.	Concrete	Min. 0.25-inch DensDeck primed with ASTM D41 primer	OB500	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-167.5
C-19.	Concrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-270.0
C-20.	Concrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with ASTM D41 primer	OB500	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-285.0
C-21.	Concrete	Min. 1.5-inch EnergyGuard	CR-20	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-172.5
C-22.	Concrete	Min. 1.5-inch EnergyGuard RN	CR-20	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-210.0
C-23.	Concrete	Min. 1.5-inch EnergyGuard RA	CR-20	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-217.5
VENTING SYSTEMS WITH BASE INSULATION LAYER ONLY							
C-24.	Concrete	Min. 1.5-inch EnergyGuard	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-150.0
C-25.	Concrete	Min. 1.5-inch EnergyGuard	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-150.0
C-26.	Concrete	Min. 1.5-inch EnergyGuard Ultra	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-172.5
C-27.	Concrete	Min. 1.5-inch EnergyGuard Ultra	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-172.5



TABLE 3A-2: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base and Top Insulation Layers)

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:									
C-28.	Concrete	Min. 1.5-inch EnergyGuard	HA	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	BP-AA	(Optional) BP-AA	SBS-AA or SBS-TA	-112.5
C-29.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.25-inch DensDeck Prime	HA	APP-TA	(Optional) APP-TA	APP-TA	-127.5
C-30.	Concrete	Min. 1.5-inch EnergyGuard	HA	Min. ¾-inch EnergyGuard Perlite (homogeneous)	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-172.5
C-31.	Concrete	Min. 1.5-inch EnergyGuard	HA	Min. 0.5-inch EnergyGuard Perlite Recover Board	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-187.5
C-32.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	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.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	SBS-TA	(Optional) SBS-TA	SBS-TA	-232.5
C-34.	Concrete	Min. 1.5-inch EnergyGuard	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	APP-TA	(Optional) APP-TA	APP-TA	-240.0
C-35.	Concrete	Min. 1.5-inch EnergyGuard	HA	Min. 0.25-inch DensDeck or DensDeck Prime	HA	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.	Concrete	Min. 1.5-inch EnergyGuard	HA	Min. 1.5-inch EnergyGuard Composite	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA, SBS-TA or APP-TA	-270.0
C-37.	Concrete	Min. 1.5-inch EnergyGuard	HA	Min. 0.5-inch EnergyGuard HD Fiberboard	HA	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.	Concrete	Min. 1.5-inch EnergyGuard	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-39.	Concrete	Min. 1.5-inch EnergyGuard	OB500	Min. 0.5-inch EnergyGuard HD Fiberboard	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



TABLE 3A-2: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base and Top Insulation Layers)

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
C-40.	Concrete	Min. 2.0-inch EnergyGuard 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-41.	Concrete	Min. 1.5-inch EnergyGuard 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-42.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	OB500	Min. 0.25-inch DensDeck Prime	OB500	SBS-TA	(Optional) One or more SBS-TA	SBS-TA	-300.0
C-43.	Concrete	Min. 1.5-inch EnergyGuard	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0
C-44.	Concrete	Min. 2.0-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	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-45.	Concrete	Min. 2.0-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	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-46.	Concrete	Min. 1.5-inch EnergyGuard	CR-20	Min. 0.25-inch DensDeck or DensDeck Prime	CR-20	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
SELF-ADHERING SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER									
C-47.	Concrete	Min. 1.5-inch EnergyGuard Ultra	HA	Min. 0.25-inch DensDeck DuraGuard	HA	SBS-SA	(Optional) SBS-SA	SBS-TA or APP-TA	-90.0
C-48.	Concrete	Min. 1.5-inch EnergyGuard	HA	Min. 0.25-inch DensDeck DuraGuard	HA	SBS-SA	(Optional) SBS-SA	SBS-TA or APP-TA	-127.5
C-49.	Concrete	Min. 1.5-inch EnergyGuard Ultra	OB500	Min. 0.25-inch DensDeck DuraGuard	OB500	SBS-SA	(Optional) SBS-SA	SBS-TA or APP-TA	-90.0
C-50.	Concrete	Min. 1.5-inch EnergyGuard	OB500	Min. 0.25-inch DensDeck DuraGuard	OB500	SBS-SA	(Optional) SBS-SA	SBS-TA or APP-TA	-120.0
C-51.	Concrete	Min. 1.5-inch EnergyGuard	OB500	Min. 0.25-inch DensDeck	OB500	SBS-SA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-122.5
C-52.	Concrete	Min. 1.5-inch EnergyGuard	OB500	Min. 0.25-inch DensDeck Prime	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-152.5
C-53.	Concrete	Min. 1.5-inch EnergyGuard	OB500	Min. 0.25-inch DensDeck; surface shall be primed with ASTM D41 primer	OB500	SBS-SA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-167.5
C-54.	Concrete	Min. 1.5-inch EnergyGuard	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-270.0



TABLE 3A-2: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base and Top Insulation Layers)

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
C-55.	Concrete	Min. 1.5-inch EnergyGuard	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board; surface shall be primed with ASTM D41 primer	OB500	SBS-SA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-285.0
VENTING SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:									
C-56.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. ¾-inch EnergyGuard Perlite (homogeneous)	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-90.0
C-57.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. ¾-inch EnergyGuard Perlite (homogeneous)	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-90.0
C-58.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.5-inch EnergyGuard HD Fiberboard	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-90.0
C-59.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.5-inch EnergyGuard HD Fiberboard	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-90.0
C-60.	Concrete	Min. 1.5-inch EnergyGuard	HA	(Optional) EnergyGuard	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-150.0
C-61.	Concrete	Min. 1.5-inch EnergyGuard	HA	(Optional) EnergyGuard	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-150.0
C-62.	Concrete	Min. 1.5-inch EnergyGuard Ultra	HA	(Optional) EnergyGuard Ultra	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-172.5
C-63.	Concrete	Min. 1.5-inch EnergyGuard Ultra	HA	(Optional) EnergyGuard Ultra	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-172.5
C-64.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.25-inch DensDeck or DensDeck Prime	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-240.0
C-65.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.25-inch DensDeck or DensDeck Prime	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-240.0
C-66.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	OB500	Min. 0.5-inch EnergyGuard HD Fiberboard	OB500	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-90.0
C-67.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	OB500	Min. 0.5-inch EnergyGuard HD Fiberboard	OB500	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-90.0
C-68.	Concrete	Min. 1.5-inch EnergyGuard Ultra	OB500	(Optional) EnergyGuard Ultra	OB500	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-150.0



TABLE 3A-2: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base and Top Insulation Layers)

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
C-69.	Concrete	Min. 1.5-inch EnergyGuard Ultra	OB500	(Optional) EnergyGuard Ultra	OB500	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-150.0
C-70.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	OB500	Min. 0.25-inch DensDeck or DensDeck Prime	OB500	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-150.0
C-71.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	OB500	Min. 0.25-inch DensDeck or DensDeck Prime	OB500	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-150.0
C-72.	Concrete	Min. 1.5-inch EnergyGuard	OB500	(Optional) EnergyGuard	OB500	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-150.0
C-73.	Concrete	Min. 1.5-inch EnergyGuard	OB500	(Optional) EnergyGuard	OB500	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-150.0
C-74.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-90.0
C-75.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-90.0
C-76.	Concrete	Min. 1.5-inch EnergyGuard	CR-20	(Optional) EnergyGuard	CR-20	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-150.0
C-77.	Concrete	Min. 1.5-inch EnergyGuard	CR-20	(Optional) EnergyGuard	CR-20	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-150.0
C-78.	Concrete	Min. 1.5-inch EnergyGuard Ultra	CR-20	(Optional) EnergyGuard Ultra	CR-20	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-172.5
C-79.	Concrete	Min. 1.5-inch EnergyGuard Ultra	CR-20	(Optional) EnergyGuard Ultra	CR-20	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-172.5
C-80.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.25-inch DensDeck or DensDeck Prime	CR-20	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-240.0
C-81.	Concrete	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.25-inch DensDeck or DensDeck Prime	CR-20	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-240.0
COLD-APPLIED SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:									
C-82.	Concrete	Min. 1.5-inch EnergyGuard	OB500	Min. 0.5-inch EnergyGuard High Density Roof Fiberboard	OB500	SBS-CA	None	SBS-CA	-45.0
CONVENTIONAL SYSTEMS WITH POLYSTYRENE BASE INSULATION LAYER:									

TABLE 3A-2: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base and Top Insulation Layers)

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
C-83.	Concrete	Min. 2.0-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene	OB500	Min. 0.5-inch GAFTEMP HD Fiberboard	OB500	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-120.0
C-84.	Concrete	Min. 1.0-inch Foamular 250 or 2.0-inch STYROFOAM Deckmate Plus FA	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-85.	Concrete	Min. 1.0-inch Foamular 250	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
C-86.	Concrete	Min. 1.5-inch, min. 1.25 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-87.5
C-87.	Concrete	Min. 1.5-inch, min. 1.25 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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	-87.5
C-88.	Concrete	Min. 1.5-inch, min. 1.5 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0
C-89.	Concrete	Min. 1.5-inch, min. 1.5 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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
C-90.	Concrete	Min. 1.5-inch, min. 2.0 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-240.0
C-91.	Concrete	Min. 1.5-inch, min. 2.0 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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	-240.0
SELF-ADHERING SYSTEMS WITH POLYSTYRENE BASE INSULATION LAYER:									
C-92.	Concrete	Min. 1.0-inch Foamular 250	OB500	Min. 0.25-inch DensDeck Prime	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-152.5
C-93.	Concrete	Min. 1.5-inch, min. 1.25 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch DensDeck Prime	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-87.5



TABLE 3A-2: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base and Top Insulation Layers)

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
C-94.	Concrete	Min. 1.5-inch, min. 1.25 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with D41 primer	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-87.5
C-95.	Concrete	Min. 1.5-inch, min. 1.5 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch DensDeck Prime	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-152.5
C-96.	Concrete	Min. 1.5-inch, min. 1.5 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with D41 primer	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-180.0
C-97.	Concrete	Min. 1.5-inch, min. 2.0 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with D41 primer	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-240.0

A. The following are options for installation of a vapor barrier / temporary roof on the concrete deck prior to insulation placement. If asphaltic vapor barrier / temp roof is installed, concrete deck shall be primed with ASTM D41 primer prior to its installation. Unless otherwise noted, system Maximum Design Pressure (MDP) is unaffected.

1. For use with asphalt-applied insulation:
 - One or two plies BP-AA
 - One BP-AA base or ply sheet with SBS-AA, SBS-TA or APP-TA base or cap membrane
 - One or two plies SBS-AA, SBS-TA or APP-TA base and/or cap membrane
2. For use with OB500 applied insulation:
 - One or two plies BP-AA (MDP -352.5 psf)
 - One ply Ruberoid TORCH Smooth, Ruberoid SBS Heat Weld 25 or Ruberoid SBS Heat Weld SMOOTH (MDP -165.0 psf)
 - Deck primed with Topcoat White Surface Seal SB at 1.0 to 1.5 gal/sq followed by Liberty Self-Adhering Base/Ply Sheet. The installed sheet is then heated with a torch to burn-off any poly-film on the top surface (MDP – 232.5 psf)
 - Deck primed with ASTM D41 primer followed by Liberty SBS Self-Adhering Base/Ply Sheet. The installed sheet is then heated with a torch to burn-off any poly-film on the top surface (MDP – 240.0 psf)
3. For use with CR-20 applied insulation:
 - One or two plies BP-AA (MDP -262.5 psf)
 - Optional BP-AA or SBS-AA with SBS-AA cap membrane (MDP -270.0 psf)
 - Optional BP-AA or SBS-AA, SBS-TA or APP-TA base membrane with SBS-TA or APP-TA cap membrane (MDP -169.0 psf).
 - Optional SBS-SA base membrane with SBS-SA cap membrane (MDP – 250.0 psf)



TABLE 3A-3: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1a: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Temp Roof	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:										
C-98.	Conc.	Deck primed with D41 primer; one or two plies of GAFGLAS Ply 4 or FlexPly 6 in hot asphalt	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-232.5
C-99.	Conc.	Deck primed with D41 primer; SBS-TA or APP-TA base ply	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	OB500	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	-165.0
C-100.	Conc.	Deck primed with D41 primer; SBS-AA or SBS-CA base ply	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	OB500	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	-165.0
C-101.	Conc.	Deck primed D41 primer; Liberty SA Self-Adhering Base/Ply Sheet; poly-film burned off	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	OB500	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	-240.0
C-102.	Conc.	Deck primed with Topcoat White Surface Seal SB; Liberty SA Self-Adhering Base/Ply Sheet; poly-film burned off	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	OB500	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	-240.0



TABLE 3B: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

System No.	Deck (See Note 1)	Primer	Roof Cover			MDP (psf)
			Base	Ply	Cap	
CONVENTIONAL SYSTEMS:						
C-103.	Concrete	ASTM D41	APP-TA	(Optional) APP-TA	APP-TA	-90.0
C-104.	Concrete	ASTM D41	BP-AA, SBS-AA	BP-AA, SBS-AA	SBS-AA	-442.5
C-105.	Concrete	(Optional) ASTM D41	SBS-TA	(Optional) SBS-TA	SBS-TA	-465.0
SELF-ADHERING SYSTEMS:						
C-106.	Concrete	ASTM D41	SBS-SA	(Optional) SBS-SA	SBS-SA	-72.5
C-107.	Concrete	ASTM D41	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-140.0
C-108.	Concrete	Top Coat Surface Seal SB	SBS-SA	None	SBS-SA, adhered in 0.25-inch beads of Surface Seal Bonding Adhesive 12-inch o.c.	-187.5
VENTING SYSTEMS:						
C-109.	Concrete	Top Coat Surface Seal SB	B-LL	(Optional) BP-AA, SBS-AA	SBS-AA	-127.5



TABLE 4A: LIGHTWEIGHT INSULATING CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			MDP (psf)
	Structural	LWC	Type	Attach	Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:										
LWC-1.	Concrete	Mearcrete (min. 300 psi)	Min. 0.5-inch Structodek TD	OB500	None	N/A	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	-155.0
LWC-2.	Concrete	Elastizell (min. 200 psi)	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	OB500	Min. 0.5-inch GAFTEMP HD Fiberboard	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.	Concrete	Elastizell (min. 200 psi)	(Optional) Min. 1.5-inch EnergyGuard 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.	Concrete	Elastizell (min. 200 psi)	Min. 2.0-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene	OB500	Min. 0.5-inch GAFTEMP HD Fiberboard	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.	Concrete	Elastizell (min. 200 psi)	Min. 1.0-inch Foamular 250	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
LWC-6.	Concrete	Elastizell (min. 200 psi)	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.5-inch GAFTEMP HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0
LWC-7.	Concrete	Elastizell (min. 200 psi)	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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	-180.0
LWC-8.	Concrete	Elastizell (min. 200 psi)	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.5-inch GAFTEMP HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-222.5
LWC-9.	Concrete	Elastizell (min. 200 psi)	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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	-222.5



TABLE 4A: LIGHTWEIGHT INSULATING CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			MDP (psf)
	Structural	LWC	Type	Attach	Type	Attach	Base	Ply	Cap	
LWC-10.	Concrete	Min. 200 psi Mearlcrete LWIC	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.5-inch GAFTEMP HD Fiberboard	CR-20	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
LWC-11.	Concrete	Mearlcrete (<i>min. 200 psi</i>)	(Optional) Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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
LWC-12.	Concrete	Elastizell, Celcore or Mearlcrete (<i>min. 200 psi</i>)	Min. 1.5-inch, min. 1.25 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-87.5
LWC-13.	Concrete	Elastizell, Celcore or Mearlcrete (<i>min. 200 psi</i>)	Min. 1.5-inch, min. 1.25 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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	-87.5
LWC-14.	Concrete	Elastizell, Celcore or Mearlcrete (<i>min. 200 psi</i>)	Min. 1.5-inch, min. 1.5 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0
LWC-15.	Concrete	Elastizell, Celcore or Mearlcrete (<i>min. 200 psi</i>)	Min. 1.5-inch, min. 1.5 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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
LWC-16.	Concrete	Celcore (<i>min. 200 psi</i>)	Min. 1.5-inch, min. 2.0 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-222.5
LWC-17.	Concrete	Celcore (<i>min. 200 psi</i>)	Min. 1.5-inch, min. 2.0 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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	-222.5
LWC-18.	Concrete	Mearlcrete (<i>min. 200 psi</i>)	Min. 1.5-inch, min. 2.0 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-240.0



TABLE 4A: LIGHTWEIGHT INSULATING CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base Insulation Layer		Coverboard		Roof Cover			MDP (psf)
	Structural	LWC	Type	Attach	Type	Attach	Base	Ply	Cap	
LWC-19.	Concrete	Mearlcrete (<i>min. 200 psi</i>)	Min. 1.5-inch, min. 2.0 pcf ASTM C578 expanded polystyrene	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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	-240.0
SELF-ADHERING SYSTEMS:										
LWC-20.	Concrete	Mearlcrete (<i>min. 300 psi</i>)	Min. 0.5-inch Structodek TD	OB500	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-122.5



TABLE 4B: LIGHTWEIGHT INSULATING CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY FASTEDED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base			Roof Cover		MDP (psf)
	Structural	LWC	Membrane	Faster	Attachment	Ply	Cap	
CONVENTIONAL SYSTEMS:								
LWC-21.	Min. 22 ga. type B, Grade 33 vented steel attached to supports at max. 6 ft spans with 5/8-inch puddle welds & washers 6-inch o.c. or structural concrete	Mearlcrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat	Ruberoid MOP Plus (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-22.	Min. 22 ga. type B, Grade 33 steel attached to supports at max. 6'-6" spans with 5/8-inch puddle welds or Tek 5 screws 6-inch o.c. or structural concrete	Min 250-300 psi Approved 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 Plates	Fasten through LWC to structural deck 6-inch o.c. within 4-inch heat welded side laps	(Optional) SBS-TA	SBS-TA	-52.5
LWC-23.	Min. 22 ga. type B, Grade 33 vented steel attached to supports at max. 6 ft spans with 5/8-inch puddle welds & washers 6-inch o.c. or structural concrete	Mearlcrete (min. 300 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat	GAFGLAS #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Eliminator Available	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
LWC-24.	Min. 22 ga. type B, Grade 33 steel attached to supports at max. 6 ft spans with Tek 5 screws 6-inch o.c. or structural concrete	Min 250-300 psi Approved cellular LWC with min. 1 pcf EPS board and min. 2-inch thick top coat	GAFGLAS FlexPly 6	See Note 2	Fasten through LWC to structural deck 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-25.	Min. 22 ga. type B, Grade 33 vented steel attached to supports at max. 5-ft spans with 5/8-inch puddle welds with washers 6-inch o.c. & side laps attached with 10-16 x 3/4" Tek's 1 screws 12-inch o.c. or structural concrete	Celcore Cellular Concrete (min. 200 psi) with min. 1 pcf EPS board and min. 2-inch thick top coat	Ruberoid MOP Granule (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-26.	Min. 22 ga. type B, Grade 33 steel attached to supports at max. 6-ft, 6-inch spans with 5/8-inch puddle welds 6-inch o.c. & side laps attached with 10-16 x 3/4" Tek's 1 screws 6-inch o.c. or structural concrete	Min 300 psi Approved cellular LWC with min. 1 pcf EPS board and min. 2-inch thick top coat	Ruberoid MOP Plus (granules down)	See Note 2 (#14 fasteners only)	Fasten through LWC to structural deck 6-inch o.c. at 4-inch side laps and 6-inch o.c. in one staggered center row.	(Optional) SBS-TA	SBS-TA (polyester reinforced, D6164 only)	-75.0

TABLE 4B: LIGHTWEIGHT INSULATING CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY FASTEDED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)		Base			Roof Cover		MDP (psf)
	Structural	LWC	Membrane	Faster	Attachment	Ply	Cap	
LWC-27.	Min. 22 ga. type B, Grade 33 steel attached to supports at max. 6-ft, 6-inch spans with 5/8-inch puddle welds 6-inch o.c. & side laps attached with 12-14 x 3/4" Tek's 1 screws 6-inch o.c. or structural concrete	Mearlcrete (min. 300 psi) with no EPS board. Note: To qualify the Mearlcrete under this assembly, a Drill-Tec Base Sheet Fastener (1.2 in.) shall achieve an average withdrawal of 106 lbf or greater when tested per TAS105 or ANSI/SPRI FX-1	GAFGLAS FlexPly 6	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-AA (polyester reinforced, D6164 only)	-82.5
LWC-28.	Min. 22 ga. type B, Grade 33 steel attached to supports at max. 5-ft spans with 5/8-inch puddle welds & washers 6-inch o.c. & side laps attached with 10-16 x 3/4" Tek's 1 screws 24-inch o.c. or structural concrete	Min 250 psi Approved cellular LWC with optional min. 1 pcf EPS board and min. 2-inch thick top coat	Ruberoid SBS Heat-Weld Granule (granules down)	See Note 2	Fasten through LWC to structural deck 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 reinforced, D6164 only)	-97.5
LWC-29.	Min. 22 ga. type B, Grade 33 steel attached to supports at max. 6-ft spans with 5/8-inch puddle welds 6-inch o.c. & side laps attached with 10-16 x 3/4" Tek's 1 screws 6-inch o.c. or structural concrete	Min 300 psi Approved cellular LWC with optional min. 1 pcf EPS board and min. 2-inch thick top coat	Ruberoid MOP Plus (granules down)	See Note 2 (AccuTrac only)	Fasten through LWC to structural deck 5-inch o.c. within min. 4-inch side laps. Laps sealed with minimum 1.5-inch heat weld.	(Optional) SBS-TA	SBS-TA (polyester reinforced, D6164, Type II only)	-127.5
LWC-30.	Min. 22 ga. type B, Grade 33 steel attached to supports at max. 6-ft spans with 5/8-inch puddle welds 6-inch o.c. & side laps attached with 10-16 x 3/4" Tek's 1 screws 6-inch o.c. or structural concrete	Mearlcrete (min. 300 psi) with no EPS board. Note: To qualify the Mearlcrete under this assembly, a Drill-Tec Base Sheet Fastener (1.2 in.) shall achieve an average withdrawal of 146 lbf or greater when tested per TAS105 or ANSI/SPRI FX-1	GAFGLAS FlexPly 6	Drill-Tec Base Sheet Fastener (1.2 in.)	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA	SBS-AA (polyester reinforced, D6164 only)	-127.5
SELF-ADHERING SYSTEMS:								
LWC-31.	Min. 22 ga. type B, Grade 33 vented steel attached to supports at max. 6 ft spans with 5/8-inch puddle welds & washers 6-inch o.c. or 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



TABLE 4C: LIGHTWEIGHT INSULATING CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

System No.	Deck (See Note 1)		Primer	Roof Cover			MDP (psf)
	Structural	LWC		Base	Ply	Cap	
SELF-ADHERING SYSTEMS:							
LWC-32.	Concrete	Min. 250-300 psi Celcore LWIC	ASTM D41	SBS-SA	None	SBS-TA	-52.5
LWC-33.	Concrete with SBS-TA temp roof	Min. 300 psi LWC Products LWIC	Top Coat Surface Seal SB	SBS-SA	None	SBS-SA, adhered in 0.25-inch beads of Surface Seal Bonding Adhesive 12-inch o.c.	-55.0
LWC-34.	Concrete	Min. 250-300 psi Celcore LWIC	Top-Coat PRECOTE	SBS-SA	None	SBS-TA	-100.0
LWC-35.	Concrete	Min. 250-300 psi Concrecel LWIC	Top Coat Surface Seal SB	SBS-SA	None	SBS-TA	-100.0
LWC-36.	Concrete	Min. 300 psi LWC Products LWIC	Top Coat Surface Seal SB	SBS-SA	None	SBS-SA, adhered in 0.25-inch beads of Surface Seal Bonding Adhesive 12-inch o.c.	-102.5
LWC-37.	Concrete	Min. 250-300 psi Elastizell LWIC	ASTM D41	SBS-SA	None	SBS-SA	-137.5
LWC-38.	Concrete	Min. 250-300 psi Elastizell LWIC	Top Coat Surface Seal SB	SBS-SA	None	SBS-TA	-157.5
LWC-39.	Concrete	Min. 250-300 psi Celcore LWIC	Top Coat Surface Seal SB	SBS-SA	None	SBS-TA	-220.0
LWC-40.	Concrete	Min. 300 psi Mearlcrete LWIC	Top Coat Surface Seal SB	SBS-SA	None	SBS-TA	-337.5



TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:									
CWF-1.	Tectum	Min. 1.5-inch EnergyGuard (tapered or flat stock)	OB500	Min. 0.5-inch EnergyGuard HD Fiberboard	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.	Tectum	Min. 1.5-inch EnergyGuard (tapered or flat stock)	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.	Tectum	Min. 1.5-inch EnergyGuard (tapered or flat stock)	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5
CWF-4.	Tectum	Min. 1.5-inch EnergyGuard (tapered or flat stock)	CR-20	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	CR-20	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 5B: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:												
CWF-5.	Tectum	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Eliminator Nailable, Ruberoid 20, MOP Smooth, Heat Weld Smooth or Heat Weld 25	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	HA	Min. 0.25-inch DensDeck, DenDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	BP-AA, SBS-AA, SBS-TA, APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-TA, APP-TA	-82.5
CWF-6.	Tectum	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Eliminator Nailable, Ruberoid 20, MOP Smooth, Heat Weld Smooth or Heat Weld 25	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	HA	Min. 0.5-inch EnergyGuard HD Fiberboard or min. 0.75-inch EnergyGuard Perlite (homogeneous)	HA	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA, APP-TA	SBS-TA, APP-TA	-82.5

TABLE 5C: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION or REROOF (Tear-Off)
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY FASTEDED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Sheet			Roof Cover		MDP (psf)
		Type	Faster	Attachment	Ply	Cap	
CONVENTIONAL SYSTEMS:							
CWF-7.	Tectum	GAFGLAS #75 Base Sheet, #80 Ultima Base Sheet, Stratavent Eliminator Nailable, Ruberoid 20, MOP Smooth, Heat Weld Smooth or Heat Weld 25	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	-82.5



TABLE 6A: GYPSUM DECKS – REROOF (Tear-Off)

SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
VENTING SYSTEMS:												
G-1	Existing sound gypsum or gypsum plank	GAFGLAS Stratavent Eliminator Nailable	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	HA	None	N/A	B-LL	Two plies SBS-AA	SBS-AA	-45.0*

TABLE 6B: GYPSUM DECKS - REROOF (Tear-Off)

SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
G-2	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.75-inch GAFTEMP Permalite	Drill-Tec Polymer Gyptec Fastener with Drill-Tec Gyptec Plate	1 per 1.3 ft ²	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-62.5*



TABLE 6C: GYPSUM DECKS - REROOF (Tear-Off)							
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY FASTEDED BASE SHEET, BONDED ROOF COVER							
System No.	Deck (See Note 1)	Base Sheet			Roof Cover		MDP (psf)
		Type	Faster	Attachment	Ply	Cap	
CONVENTIONAL SYSTEMS:							
G-3	Existing sound gypsum or gypsum plank	GAFGLAS Stratavent Eliminator Nailable	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-4	Existing sound gypsum or gypsum plank	GAFGLAS #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Eliminator Nailable	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-5	Existing sound gypsum or gypsum plank	GAFGLAS #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Eliminator Nailable	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*

TABLE 6D: GYPSUM DECKS - REROOF (Tear-Off)							
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER							
System No.	Deck (See Note 1)	Primer	Roof Cover			MDP (psf)	
			Base	Ply	Cap		
SELF-ADHERING SYSTEMS:							
G-6	Existing sound gypsum or gypsum plank	GAF Top Coat Surface Seal SB	SBS-SA	None	GAF Ruberoid SBS Heat Weld Granular		-397.5



TABLE 7A-1: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base Insulation Layer Only)

System No.	Substrate (See Notes 1 & 11)	Base Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS WITH BASE INSULATION LAYER ONLY							
R-1.	Existing asphaltic roof cover	Min. ¾-inch EnergyGuard Perlite (homogeneous)	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-140.0
R-2.	Existing asphaltic roof cover	Min. 0.5-inch EnergyGuard Perlite Recover Board	HA	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-3.	Existing asphaltic roof cover	Min. 0.5-inch EnergyGuard HD Fiberboard	HA	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-4.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard Composite	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA, SBS-TA or APP-TA	-240.0
R-5.	Existing asphaltic roof cover	Min. 0.5-inch EnergyGuard HD Fiberboard	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-6.	Existing asphaltic roof cover	Min. 0.25-inch DensDeck Prime	OB500	SBS-TA	(Optional) One or more SBS-TA	SBS-TA	-120.0
R-7.	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
R-8.	Existing asphaltic roof cover	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	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-9.	Existing asphaltic roof cover	Min. 0.25-inch DensDeck Prime	CR-20	SBS-TA	(Optional) One or more SBS-TA	SBS-TA	-245.0
SELF-ADHERING SYSTEMS WITH BASE INSULATION LAYER ONLY							
R-10.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard Ultra	HA	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, SBS-TA, APP-TA	-90.0
R-11.	Existing asphaltic roof cover	Min. 0.25-inch DensDeck DuraGuard	HA	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-SA, SBS-TA, APP-TA	-127.5
R-12.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-172.5
R-13.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard RN	HA	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-210.0
R-14.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard RA	HA	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-217.5



TABLE 7A-1: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base Insulation Layer Only)

System No.	Substrate (See Notes 1 & 11)	Base Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Base	Ply	Cap	
R-15.	Existing granule surface cap sheet	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-240.0
R-16.	Existing asphaltic roof cover	Min 0.5-inch Structodek HD Fiberboard	OB500, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-110.0
R-17.	Existing asphaltic roof cover	Min. 0.25-inch DensDeck DuraGuard	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
R-18.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
R-19.	Existing asphaltic roof cover	Min. 0.25-inch DensDeck	OB500	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-120.0
R-20.	Existing asphaltic roof cover	Min. 0.25-inch DensDeck primed with ASTM D41 primer	OB500	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-120.0
R-21.	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-22.	Existing asphaltic roof cover	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with ASTM D41 primer	OB500	SBS-SA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-120.0
R-23.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	CR-20	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-172.5
R-24.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard RN	CR-20	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-210.0
R-25.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard RA	CR-20	SBS-SA	(Optional) SBS-SA, SBS-TA, APP-TA	SBS-TA, APP-TA	-217.5
VENTING SYSTEMS WITH BASE INSULATION LAYER ONLY							
R-26.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-150.0
R-27.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-150.0
R-28.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard Ultra	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-172.5
R-29.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard Ultra	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-172.5



TABLE 7A-2: RECOVER APPLICATIONS

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base and Top Layer Insulation)

System No.	Substrate (See Notes 1 & 11)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
CONVENTIONAL SYSTEMS (BASE AND TOP LAYER INSULATION):									
R-30.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	BP-AA	(Optional) BP-AA	SBS-AA or SBS-TA	-112.5
R-31.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-127.5
R-32.	Existing granule surface cap sheet	Min. 1.5-inch EnergyGuard	HA	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	SBS-TA, APP-TA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-172.5
R-33.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	Min. ¾-inch EnergyGuard Perlite (homogeneous)	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-172.5
R-34.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	Min. 0.5-inch EnergyGuard Perlite Recover Board	HA	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-187.5
R-35.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	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-36.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	SBS-TA	(Optional) SBS-TA	SBS-TA	-232.5
R-37.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	APP-TA	(Optional) APP-TA	APP-TA	-240.0
R-38.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	Min. 0.5-inch EnergyGuard HD Fiberboard or Min. 1.5-inch EnergyGuard Composite or min. 0.25-inch DensDeck Prime	HA	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-39.	Existing asphalt BUR or mineral surface cap	Min. 1.5-inch EnergyGuard	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-40.	Existing asphalt BUR or mineral surface cap	Min. 1.5-inch EnergyGuard	OB500	Min. 0.5-inch EnergyGuard HD Fiberboard	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

TABLE 7A-2: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base and Top Layer Insulation)

System No.	Substrate (See Notes 1 & 11)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-41.	Existing smooth APP	Min. 1.5-inch EnergyGuard	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-42.	Existing smooth APP	Min. 1.5-inch EnergyGuard	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-43.	Existing smooth APP	Min. 1.5-inch EnergyGuard	OB500	Min. 0.5-inch EnergyGuard HD Fiberboard	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-44.	Existing mineral surface cap	Min. 1.5-inch EnergyGuard	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	-172.5
R-45.	Existing mineral surface cap	Min. 1.5-inch EnergyGuard RN	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	-210.0
R-46.	Existing mineral surface cap	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	-217.5
R-47.	Existing mineral surface cap	Min. 1.5-inch EnergyGuard RM	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
R-48.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	CR-20	Min. 0.5-inch EnergyGuard HD Fiberboard	CR-20	BP-AA, SBS-AA	(Optional) One or more BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0
R-49.	Existing asphaltic roof cover	Min. 2.0-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	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-50.	Existing asphaltic roof cover	Min. 2.0-inch EnergyGuard or EnergyGuard Ultra	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	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-51.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	CR-20	Min. 0.25-inch DensDeck or DensDeck Prime	CR-20	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
SELF-ADHERING SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER									
R-52.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard Ultra	HA	Min. 0.25-inch DensDeck DuraGuard	HA	SBS-SA	(Optional) SBS-SA	SBS-TA or APP-TA	-90.0
R-53.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	Min. 0.25-inch DensDeck DuraGuard	HA	SBS-SA	(Optional) SBS-SA	SBS-TA or APP-TA	-127.5



TABLE 7A-2: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base and Top Layer Insulation)

System No.	Substrate (See Notes 1 & 11)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-54.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard Ultra	OB500	Min. 0.25-inch DensDeck DuraGuard	OB500	SBS-SA	(Optional) SBS-SA	SBS-TA or APP-TA	-90.0
R-55.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	OB500	Min. 0.25-inch DensDeck, DensDeck Prime or DensDeck DuraGuard or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-TA or APP-TA	-120.0
R-56.	Existing smooth APP	Min. 1.5-inch EnergyGuard	OB500	Min. 0.25-inch DensDeck Prime	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-152.5
R-57.	Existing smooth APP	Min. 1.5-inch EnergyGuard	OB500	Min. 0.25-inch DensDeck; surface shall be primed with ASTM D41 primer	OB500	SBS-SA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-165.0
R-58.	Existing mineral surface cap	Min. 1.5-inch EnergyGuard	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	-172.5
R-59.	Existing mineral surface cap	Min. 1.5-inch EnergyGuard RN	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	-210.0
R-60.	Existing mineral surface cap	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	-217.5
R-61.	Existing mineral surface cap	Min. 1.5-inch EnergyGuard RM	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
VENTING SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:									
R-62.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. ¾-inch EnergyGuard Perlite (homogeneous)	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-90.0
R-63.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. ¾-inch EnergyGuard Perlite (homogeneous)	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-90.0
R-64.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.5-inch EnergyGuard HD Fiberboard	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-90.0
R-65.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.5-inch EnergyGuard HD Fiberboard	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-90.0
R-66.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	(Optional) EnergyGuard	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-150.0



TABLE 7A-2: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER (Base and Top Layer Insulation)

System No.	Substrate (See Notes 1 & 11)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-67.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	HA	(Optional) EnergyGuard	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-150.0
R-68.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard Ultra	HA	(Optional) EnergyGuard Ultra	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-172.5
R-69.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard Ultra	HA	(Optional) EnergyGuard Ultra	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-172.5
R-70.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.25-inch DensDeck or DensDeck Prime	HA	B-LL	(Optional) One or more BP-AA, SBS-AA	SBS-AA	-240.0
R-71.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard or EnergyGuard Ultra	HA	Min. 0.25-inch DensDeck or DensDeck Prime	HA	B-LL	One or more BP-AA, SBS-AA	SBS-TA or APP-TA	-240.0
COLD-APPLIED SYSTEMS WITH POLYISOCYANURATE BASE INSULATION LAYER:									
R-72.	Existing asphaltic roof cover	Min. 1.5-inch EnergyGuard	OB500	Min. 0.5-inch EnergyGuard High Density Roof Fiberboard	OB500	SBS-CA	None	SBS-CA	-45.0