



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
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[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

GAF

1 Campus Drive  
Parsippany, NJ 07054

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: GAF Liberty™ SBS Self-Adhering Modified Bitumen Roofing Systems Over Concrete Decks.**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA 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 NOA renews and revises NOA No. 15-0203.09 and consists of pages 1 through 38.  
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 18-0615.05  
Expiration Date: 08/08/23  
Approval Date: 08/02/18  
Page 1 of 38

## ROOFING SYSTEM APPROVAL

**Category:** Roofing  
**Sub-Category:** Modified Bitumen  
**Material:** APP/SBS  
**Deck Type:** Concrete  
**Maximum Design Pressure:** -285 psf.

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Liberty™ SBS Self-Adhering Base/Ply Sheet	39.375" x 66'	ASTM D4601	Self-adhering, SBS modified base or ply sheet with glass reinforced mat.
Liberty™ SBS Self-Adhering Cap Sheet	39.375" x 34'	ASTM D6164	A granule surfaced self-adhering SBS cap sheet reinforced with a polyester mat.
WeatherWatch® XT Mat Surfaced Leak Barrier	36" x 50' Rolls 36" x 66.7' Rolls	ASTM D1970	Mat surfaced SBS modified, fiberglass reinforced, bituminous sheet material for use as a leak barrier underlayment or vapor retarder.
GAFGLAS® Ply 4	39.37" (1 meter) Wide	ASTM D2178	A smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
Tri-Ply® Ply 4	39.37" (1 meter) Wide	ASTM D2178	A smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
GAFGLAS® FlexPly™ 6	39.37" (1 meter) Wide	ASTM D2178	A smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
Ruberoid® SBS Heat-Weld 25	39.37" (1 meter) Wide	ASTM D6163	A smooth surfaced torch applied SBS base or ply sheet reinforced with a fiberglass mat.
Ruberoid® SBS Heat-Weld Smooth	39.37" (1 meter) Wide	ASTM D6164	A smooth surfaced torch applied SBS base or ply sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld Granule	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld 170 FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced heat-welded SBS cap sheet reinforced with a polyester mat.



<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
Ruberoid® SBS Heat-Weld Plus	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld Plus FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced heat-welded SBS cap sheet reinforced with a polyester mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Ruberoid® Torch Smooth	39.37" (1 meter) Wide	ASTM D6222	A smooth surfaced torch applied APP base or ply sheet reinforced with a polyester mat.
Tri-Ply® TP-4	39.37" (1 meter) Wide	ASTM D6222	A smooth surfaced torch applied APP cap, base or ply sheet reinforced with a polyester mat.
Ruberoid® Torch Granule	39.37" (1 meter) Wide	ASTM D6222	A granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Tri-Ply® TP-4G	39.37" (1 meter) Wide	ASTM D6222	A granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Ruberoid® Torch FR	39.37" (1 meter) Wide	ASTM D6222	A fire retardant granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Ruberoid® EnergyCap™ Torch Plus FR	39.37" (1 meter) Wide	ASTM D6222	A fire retardant granule surfaced torch applied APP cap sheet reinforced with a polyester mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Ruberoid® EnergyCap™ Torch Granule FR	39.37" (1 meter) Wide	ASTM D6222	A fire retardant granule surfaced torch applied APP cap sheet reinforced with a polyester mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
GAFGLAS® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	A granule surfaced asphaltic cap sheet reinforced with fiberglass mat.



<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet	39.37” (1 meter) Wide	ASTM D3909	A granule surfaced asphaltic cap sheet reinforced with fiberglass mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Tri-Ply® Mineral Surfaced Cap Sheet	39.37” (1 meter) Wide	ASTM D3909	A granule surfaced asphaltic cap sheet reinforced with a fiberglass mat.
Topcoat® Membrane	1, 5 or 55 Gallons	ASTM D6083	Acrylic, water based elastomeric membrane system designed to protect various types of roof surfaces.
Topcoat® MB Plus	5 or 55 Gallons	Proprietary	Water based, low VOC primer designed to block asphalt bleed-through.
Topcoat® Surface Seal SB	5, 55 Gallons	ASTM D6083	Solvent based sprayable thermoplastic rubber sealant designed to protect and restore aged roof surfaces and to increase roof reflectivity.
Topcoat® FlexSeal	1, 5 Gallons or 1 qt. tube	Proprietary	Solvent based flashing compound for gutters and other detailing.
Matrix™ 307 Premium Asphalt Primer	3, 5, 55 Gallons	ASTM D41	Asphalt concrete primer used to promote adhesion of all types of asphalt-based roofing materials.



**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ HD Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ HD Plus Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF
DensDeck® Roof Board	Gypsum board	Georgia Pacific Gypsum LLC
DensDeck® Prime® Roof Board	Gypsum board	Georgia Pacific Gypsum LLC
Structodek® High Density Fiber Board	High density fiberboard	Blue Ridge Fiber Board, Inc.
Securock® Gypsum-Fiber Roof Board	Gypsum board	United States Gypsum Corporation

**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
1.	N/A	N/A	N/A	N/A



**EVIDENCE SUBMITTED:**

<u>Test Agency/Identifier</u>	<u>Report</u>	<u>Name</u>	<u>Date</u>
Factory Mutual Research Corp.	3024805	4470	11/20/06
	3029832	4470	05/11/07
	3042905	4470	01/10/12
	3036980	4470	08/14/09
	3044688	4470	01/03/12
	3041535	4470	06/08/11
	3046328	4470	09/13/12
	3041769	4470	05/26/11
	3044862	4470	05/11/12
UL LLC	R10689	UL 790	03/14/13
	R1306	UL 790	05/22/13
Exterior Research & Design, LLC	18035.12.02-2	TAS 114	12/24/02
	01501.04.03	TAS 114	04/03/03
	01881.09.03-2	TAS 114-D	09/09/03
Trinity   ERD	01881.11.03-2-RI	TAS 114-D	08/21/07
	G4280LAB.10.06	TAS 114-D	10/20/06
	G4280LAB.10.06-RI	TAS 114	12/06/06
	G6850.08.08-R1	ASTM D6164	04/14/11
	G6850.11.08	ASTM D6222	11/05/08
	G6850.10.08	ASTM D6222	10/06/08
	G30250.02.10-3-R1	ASTM D3909	11/26/12
	G40620.07.12-2	ASTM D6222	07/17/12
	G12210.06.09	ASTM D6163	08/03/09
	G30250.02.10-2	ASTM D6222	05/11/10
	G34140.04.11-5	ASTM D4897	04/25/11
	G121110.12.08	ASTM D4601	12/02/08
	G34140.04.11-4	ASTM D4601	04/25/11
	G34140.04.11-2	ASTM D6163	04/25/11
	C8500SC.11.07	ASTM D6862	11/30/07
	G33470.01.11	ASTM D6164	01/13/11
	G31360.03.10	ASTM D6164	03/31/10
	G43610.01.14	ASTM D4798	01/22/14
	G43180.03.14	ASTM D6164	03/03/14
	G40630.03.14	ASTM D4798	03/06/14
	G43190.03.14-1	ASTM D4798	03/06/14
	G43190.03.14-2	ASTM D4798	03/06/14
	G30250.02.10-3-R1	ASTM D3909	11/26/12
	G40630.01.14-2A	ASTM D6164	01/07/14
	G40630.01.14-2B	ASTM D6164	01/07/14
	G40630.01.14-2C	ASTM D6164	01/07/14
	G6850.08.08-R1	ASTM D6164	04/14/11
G40620.07.12-2	ASTM D6222	07/17/12	



**EVIDENCE SUBMITTED: (CONTINUED)**

<u>Test Agency/Identifier</u>	<u>Report</u>	<u>Name</u>	<u>Date</u>
Trinity   ERD	G30250.02.10-3-R1	ASTM D3909	05/15/10
	G6850.11.08	ASTM D6222	02/17/09
	G6850.10.08	ASTM D6222	10/06/08
	G43190.11.13-1	ASTM D6222	11/15/13
	SC6870.08.14-R1	ASTM D3909	09/4/14
	GAF-SC13285.03.17-5	ASTM D6164	03/23/17
	G43180.01.14-1	ASTM D4601	01/10/14
	GAF-SC9700.08.15-R1	ASTM D2178	09/09/15
Atlantic & Caribbean Roof Consulting	07-047	TAS 114-D	09/07/07
	07-032	TAS 114-D	05/10/07
	11-051	TAS 114-D	08/11/11
PRI Construction Materials Technologies LLC	GAF-314-02-01	ASTM D2178	08/23/11
	GAF-315-02-01	ASTM D2178	08/23/11
	GAF-500-02-01	ASTM D6083	03/12/14
	GAF-499-02-01	ASTM D6083	03/11/14
	GAF-411-02-01	ASTM D1289	05/02/13
	GAF-412-02-01	ASTM D1289	05/02/13
	GAF-323-02-01	ASTM D1970	12/11/11
	GAF-344-02-01	ASTM D1970	06/24/12
	GAF-369-02-01	ASTM D1289	10/23/12
	GAF-122-02-01	TAS 139	05/09/06
	GAF-498-02-01	ASTM D6089	09/16/16
	GAF-499-02-01	ASTM D6083	05/19/16
	GAF-671-02-01	TAS 139	06/30/16



**APPROVED ASSEMBLIES:**

- Membrane Type:** APP/SBS
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete
- System Type A(1):** All layers of insulation adhered to deck or vapor retarder with approved adhesive.
- Vapor Retarder: (Optional)** One or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.5" thick</b>	N/A	N/A

**Note: Base insulation layer applied in OlyBond® Adhesive at 1 gal./sq. full coverage, OlyBond 500® or OlyBond 500® Green applied in continuous 3/4" to 1" wide ribbons spaced 12" o.c.**

<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>DensDeck® Prime® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick</b>	N/A	N/A

**Note: Top insulation layer applied in OlyBond® Adhesive at 1 gal./sq. full coverage, OlyBond 500® or OlyBond 500® Green applied in continuous 3/4" to 1" wide ribbons spaced 12" o.c.**

- Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4" lap in accordance with manufacturer’s application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation in accordance with manufacturer’s application instructions when used with a torch adhered cap sheet.

- Membrane:** One ply of Liberty™ SBS Self-Adhering Cap Sheet self-adhered. Applied to the base sheet in accordance with manufacturer’s application instructions.  
OR  
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer’s application instructions.





**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:**                    - 152.5 psf. (See General Limitation #9)



- Membrane Type:** SBS, Self-Adhered
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(2):** All layers of insulation are adhered to the deck or vapor retarder with approved adhesive. Membrane is subsequently fully adhered.
- Vapor Retarder: (Optional)** One or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations shall apply.**

<b>Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>DensDeck® Prime® Roof Board, Securock® Gypsum-Fiber Roof Board, Structodek® High Density Fiber Board Minimum 0.5” thick</b>	N/A	N/A

**All insulation shall be adhered to the deck with OlyBond 500®, OlyBond 500® Green or LRF Adhesive M applied in continuous ¾” to 1” wide ribbons at a maximum spacing of 6” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

- Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4” lap in accordance with manufacturer’s application instructions.
- Membrane:** One ply of Liberty™ SBS Self-Adhering Cap Sheet self-adhered. Applied to the base sheet in accordance with manufacturer's application instructions.
- Surfacing:** **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer’s application instructions.**
1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
  2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
  3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
  4. A fibered aluminum roof coating applied in accordance with manufacturer’s application instructions.

**Maximum Design**

**Pressure:** -110 psf. (See General Limitation #9)



- Membrane Type:** APP/SBS
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(3):** All layers of insulation are adhered to the deck or vapor retarder with approved adhesive. Membrane is subsequently fully adhered.
- Vapor Retarder: (Optional)** One or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations shall apply.**

One or more layers of any of the following insulations.

<b>Base Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.5" thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick</b>	N/A	N/A

**Note: All layers of insulation shall be adhered to the deck with OlyBond 500® or OlyBond 500® Green applied in continuous ¾" to 1" wide ribbons at a maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

- Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4" lap in accordance with manufacturer's application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer's applications instructions when used with a torch adhered cap sheet.
- Ply Sheet: (Optional)** One or more plies of Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth applied in accordance with manufacturer's application instructions.
- Membrane:** One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.



**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:**                    -122.5 psf. (See General Limitation #9)



- Membrane Type:** APP/SBS
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(4):** All layers of insulation adhered to deck or vapor retarder with approved adhesive. Membrane is subsequently fully adhered.
- Vapor Retarder: (Optional)** One or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations shall apply.**

One or more layers of any of the following insulations.

<b>Base Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.5” thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Securock® Gypsum-Fiber Roof Board Minimum 0.25” thick</b>	N/A	N/A

**Note: All layers of insulation shall be adhered to the deck with OlyBond 500® or OlyBond 500® Green applied in continuous ¾” to 1” wide ribbons at a maximum spacing of 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4” lap in accordance with manufacturer’s application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer’s applications instructions when used with a torch adhered cap sheet.

**Ply Sheet: (Optional)** One or more plies of Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth applied in accordance with manufacturer's application instructions.

**Membrane:** One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.



**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS<sup>®</sup> Mineral Surfaced Cap Sheet, Tri-Ply<sup>®</sup> Mineral Surfaced Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat<sup>®</sup> Membrane, Topcoat<sup>®</sup> MB Plus (to be used as a primer with Topcoat<sup>®</sup> Membrane) or Topcoat<sup>®</sup> Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:**                    -270 psf. (See General Limitation #9)



- Membrane Type:** APP/SBS
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(5):** All layers of insulation adhered to deck or vapor retarder with approved adhesive. Membrane is subsequently fully adhered.
- Vapor Retarder: (Optional)** One or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations shall apply.**

One or more layers of any of the following insulations.

<b>Base Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.5” thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>DensDeck® Roof Board, DensDeck® Prime Roof Board, Securock® Gypsum-Fiber Roof Board Minimum 0.25” thick</b>	N/A	N/A

**Note: All layers of insulation shall be adhered to the deck with OlyBond 500® or OlyBond 500® Green applied in continuous ¾” to 1” wide ribbons at a maximum spacing of 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Top Insulation Layer shall be primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet.**

- Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet with a minimum 4” lap applied to the insulation in accordance with manufacturer’s application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer’s applications instructions when used with a torch adhered cap sheet.
- Ply Sheet: (Optional)** One or more plies of Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth applied in accordance with manufacturer's application instructions.
- Membrane:** One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.



**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS<sup>®</sup> Mineral Surfaced Cap Sheet, Tri-Ply<sup>®</sup> Mineral Surfaced Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat<sup>®</sup> Membrane, Topcoat<sup>®</sup> MB Plus (to be used as a primer with Topcoat<sup>®</sup> Membrane) or Topcoat<sup>®</sup> Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:**                    -167.5 psf. (See General Limitation #9)





- Membrane Type:** APP/SBS
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(6):** All layers of insulation adhered to deck or vapor retarder with approved adhesive. Membrane is subsequently fully adhered.
- Vapor Retarder: (Optional)** One or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations shall apply.**

One or more layers of any of the following insulations.

<b>Base Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1.5” thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Securock® Gypsum-Fiber Roof Board Minimum 0.25” thick</b>	N/A	N/A

**Note: All layers of insulation shall be adhered to the deck with OlyBond 500® or OlyBond 500® Green applied in continuous ¾” to 1” wide ribbons at a maximum spacing of 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Top Insulation Layer shall be primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet.**

- Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4” lap in accordance with manufacturer’s application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer’s applications instructions when used with a torch adhered cap sheet.
- Ply Sheet: (Optional)** One or more plies of Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth applied in accordance with manufacturer's application instructions.
- Membrane:** One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.



**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:**                    -285 psf. (See General Limitation #9)



- Membrane Type:** APP/SBS
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(7):** All layers of insulation adhered to deck or vapor retarder with approved adhesive. Membrane is subsequently fully adhered.
- Vapor Retarder: (Optional)** One ply of Ruberoid® Torch Smooth, Tri-Ply® TP-4 or Ruberoid® SBS Heat-Weld Smooth torch adhered to concrete deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations shall apply.**

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.5" thick	N/A	N/A

**Note: Insulation shall be adhered to the deck or optional vapor retarder with OlyBond 500® or OlyBond 500® Green applied in continuous ¾" to 1" ribbons wide ribbons spaced 12" o.c. After placement walk in insulation. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

- Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4" lap in accordance with manufacturer's application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer's applications instructions when used with a torch adhered cap sheet.
- Ply Sheet: (Optional)** One or more plies of Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth applied in accordance with manufacturer's application instructions.
- Membrane:** One ply of Liberty™ SBS Self-Adhering Cap Sheet applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.



**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS<sup>®</sup> Mineral Surfaced Cap Sheet, Tri-Ply<sup>®</sup> Mineral Surfaced Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat<sup>®</sup> Membrane, Topcoat<sup>®</sup> MB Plus (to be used as a primer with Topcoat<sup>®</sup> Membrane) or Topcoat<sup>®</sup> Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:**                    -120 psf. (See General Limitation #9)



- Membrane Type:** APP/SBS
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(8):** All layers of insulation adhered to deck or vapor retarder with hot asphalt. Membrane is subsequently fully adhered.
- Vapor Retarder: (Optional)** One or two plies of GAFGLAS® Ply 4 Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations shall apply.**

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick	N/A	N/A

**Note: Insulation shall be adhered to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.**

**Or**

**Insulation shall be adhered to optional vapor retarder with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

- Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4" lap in accordance with manufacturer's application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation when used with a torch adhered cap sheet applied in accordance with manufacturer's applications instructions.
- Ply Sheet: (Optional)** One or more plies of Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth in applied accordance with manufacturer's application instructions.
- Membrane:** One ply of Liberty™ SBS Self-Adhering Cap Sheet applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.



**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:**                    -127.5 psf. (See General Limitation #9)



- Membrane Type:** APP/SBS
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(9):** All layers of insulation adhered to deck or vapor retarder with approved adhesive. Membrane is subsequently fully adhered.
- Vapor Retarder: (Optional)** One ply of Ruberoid® Torch Smooth, Tri-Ply® TP-4 or Ruberoid® SBS Heat-Weld™ Smooth torch adhered to the concrete deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations shall apply.**

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick	N/A	N/A

**Note: Insulation shall be adhered to the deck or optional vapor retarder with OlyBond 500® or OlyBond 500® Green applied in continuous ¾" to 1" ribbons wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

- Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4" lap in accordance with manufacturer's application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer's applications instructions when used with a torch adhered cap sheet.
- Ply Sheet: (Optional)** One or more plies of Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth applied in accordance with manufacturer's application instructions.
- Membrane:** One ply of Liberty™ SBS Self-Adhering Cap Sheet applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.



**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS<sup>®</sup> Mineral Surfaced Cap Sheet, Tri-Ply<sup>®</sup> Mineral Surfaced Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat<sup>®</sup> Membrane, Topcoat<sup>®</sup> MB Plus (to be used as a primer with Topcoat<sup>®</sup> Membrane) or Topcoat<sup>®</sup> Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:**                    -120 psf. (See General Limitation #9)





**Membrane Type:** APP/SBS

**Deck Type 3I:** Concrete Decks, Insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type A(10):** All layers of insulation adhered to primed deck or vapor retarder with hot asphalt. Membrane is subsequently fully adhered.

**Vapor Retarder: (Optional)** One or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**Insulation Layer:** **See Insulation Maximum Design Pressure Table A below. Design Pressure is dependent upon Insulation Option used in this system.**

**Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet with a minimum 4” lap applied to the insulation in accordance with manufacturer’s application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer’s applications instructions when used with a torch adhered cap sheet.

**Ply Sheet: (Optional)** One or more plies of Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth applied in accordance with manufacturer's application instructions.

**Membrane:** One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.



**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer’s application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer’s application instructions.

<b>Insulation Maximum Design Pressure Table A</b>	
<b>Insulation Layer Options:</b>	
1.	Min. 1.5" EnergyGuard™ RA Polyiso Insulation mopped in asphalt at the rate of 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.
	<b>Maximum Design Pressure –217.5 psf. (See General Limitation #9)</b>
2.	Min. 1.5" EnergyGuard™ Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation or EnergyGuard™ RH Polyiso Insulation mopped in asphalt at the rate of 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.
	<b>Maximum Design Pressure –210 psf. (See General Limitation #9)</b>



**Membrane Type:** APP/SBS

**Deck Type 3I:** Concrete Decks, Insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type A(11):** All layers of insulation adhered to deck or vapor retarder with hot asphalt. Membrane is subsequently fully adhered.

**Vapor Retarder: (Optional)** One or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.5” thick	N/A	N/A

**Note: Base layer of insulation shall be adhered to the primed deck or optional vapor retarder with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Securock® Gypsum-Fiber Roof Board Minimum 0.25” thick	N/A	N/A

**Note: Top layer of insulation shall be adhered with an approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4” lap in accordance with manufacturer’s application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer’s applications instructions when used with a torch adhered cap sheet.

**Ply Sheet: (Optional)** One or more plies of Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth applied in accordance with manufacturer's application instructions.



**Membrane:** One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied in accordance with manufacturer's application instructions.

OR

One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.

**Surfacing:** **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:** -127.5 psf. (See General Limitation #9)



**Membrane Type:** APP/SBS

**Deck Type 3I:** Concrete Decks, Insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type A(12):** All layers of insulation adhered to deck or vapor retarder with approved adhesive. Membrane is subsequently fully adhered.

**Vapor Retarder: (Optional)** One ply of Ruberoid® Torch Smooth, Tri-Ply® TP-4 or Ruberoid® SBS Heat-Weld Smooth, torch adhered to the concrete deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.5" thick</b>	N/A	N/A

**Note:** Base insulation layer shall be adhered to the deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer or optional vapor retarder with OlyBond 500® or OlyBond 500® Green applied in continuous ¾" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick</b>	N/A	N/A

**Note:** Top insulation layer shall be adhered with OlyBond 500® or OlyBond 500® Green insulation adhesive in ¾" to 1" beads wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4" lap in accordance with manufacturer's application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer's applications instructions when used with a torch adhered cap sheet.

**Ply Sheet: (Optional)** One or more plies of Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth applied in accordance with manufacturer's application instructions.

**Membrane:** One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.



**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:**                    -120 psf. (See General Limitation #9)



**Membrane Type:** APP/SBS  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank.  
**System Type A(13):** All layers of insulation are adhered to the deck or vapor retarder with approved adhesive. Membrane is subsequently fully adhered.  
**Vapor Retarder:** One or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6  
**(Optional)** adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations shall apply.**

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick	N/A	N/A

**Note: Insulation shall be adhered to the deck with OlyBond® 500 or OlyBond 500® Green applied in continuous ¾" to 1" ribbons at a maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4" lap in accordance with manufacturer's application instructions.  
 OR  
 One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer's applications instructions when used with a torch adhered cap sheet.

**Membrane:** One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied in accordance with manufacturer's application instructions.  
 OR  
 One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.

**Surfacing:** **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:** -270 psf. (See General Limitation #9)



**Membrane Type:** APP/SBS Heat-Weld

**Deck Type 3I:** Concrete Decks, Insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type A(14):** All layers of insulation are adhered to the deck or vapor retarder with approved adhesive. Membrane is subsequently fully adhered.

**Vapor Retarder: (Optional)** One or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations shall apply.**

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick	N/A	N/A

**Note:** Insulation shall be adhered to the deck with OlyBond® 500 or OlyBond 500® Green applied in continuous ¾" to 1" ribbons at a maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation shall be primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet.

**Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4" lap in accordance with manufacturer's application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer's applications instructions when used with a torch adhered cap sheet.

**Membrane:** One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.





**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:**                    -167.5 psf. (See General Limitation #9)



- Membrane Type:** APP/SBS
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(15):** All layers of insulation are adhered to the deck with approved adhesive. Membrane is subsequently fully adhered
- Vapor Retarder: (Optional)** One or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

**All General and System Limitations shall apply.**

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick	N/A	N/A

**Note: Insulation shall be adhered to the deck with OlyBond® 500 or OlyBond 500® Green applied in continuous ¾" to 1" ribbons at a maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

- Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4" lap in accordance with manufacturer's application instructions.  
OR  
One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the insulation applied in accordance with manufacturer's applications instructions when used with a torch adhered cap sheet.

- Membrane:** One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld™ Plus FR applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.



**Surfacing:**                    **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer's application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS<sup>®</sup> Mineral Surfaced Cap Sheet, Tri-Ply<sup>®</sup> Mineral Surfaced Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat<sup>®</sup> Membrane, Topcoat<sup>®</sup> MB Plus (to be used as a primer with Topcoat<sup>®</sup> Membrane) or Topcoat<sup>®</sup> Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer's application instructions.

**Maximum Design**

**Pressure:**                    -122.5 psf. (See General Limitation #9)



**Membrane Type:** APP/SBS

**Deck Type 3I:** Concrete Decks, Insulated

**Deck Description:** Structural concrete deck (minimum 2500 psi).

**System Type A(16):** All layers of insulation are adhered to the deck with approved adhesive. Membrane is subsequently fully adhered

**All General and System Limitations apply.**

One or more of any of the following insulation.

<b>Base Layer Insulation</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1” thick</b>	N/A	N/A
<b>Top Layer Insulation</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density ft<sup>2</sup></b>
<b>EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation Minimum 1/2” thick</b>	N/A	N/A

**All layers of insulation is adhered to the deck with OlyBond® 500 or OlyBond® 500 Green applied in 1” wide ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** Liberty™ SBS Self-Adhering Base/Ply Sheet is self-adhered.

**Membrane:** One or more plies of Ruberoid® SBS Heat-Weld 170 FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR heat-weld applied in accordance with manufacturer's application instructions.  
OR  
One or more plies of Ruberoid® SBS Heat-Weld Granule, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR or Ruberoid® EnergyCap™ Torch Granule FR torch applied in accordance with manufacturer's application instructions.

**Surfacing:  
(Optional)** **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer’s application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer’s application instructions.

**Maximum Design**

**Pressure:** -162.5 psf. (General Limitation #9)



**Membrane Type:** APP/SBS

**Deck Type 3:** Concrete Decks, Non-insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type F:** Membrane and/or anchor sheet is adhered to primed deck.

**All General and System Limitations shall apply.**

**Note: Concrete deck shall be primed with ASTM D41 or Matrix™ 307 Premium Asphalt Primer and allowed to dry prior to application of base sheet.**

**Base Sheet:** One ply of Liberty™ SBS Self-Adhering Base/Ply Sheet applied to the primed deck with a minimum 4” lap in accordance with manufacturer’s application instructions.

OR

One ply of WeatherWatch® XT Mat Surfaced Leak Barrier self-adhered to the primed deck applied in accordance with manufacturer’s applications instructions when used with a torch adhered cap sheet.

**Ply Sheet:  
(Optional)** One or more plies of Ruberoid® SBS Heat-Weld 25 or Ruberoid® SBS Heat-Weld Smooth applied in accordance with manufacturer's application instructions.

**Membrane:** One ply of Liberty™ SBS Self-Adhering Cap Sheet applied in accordance with manufacturer's application instructions.

OR

One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld™ Plus FR applied in accordance with manufacturer's application instructions.

OR

One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied in accordance with manufacturer's application instructions.

**Surfacing:** **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be listed in a current Miami-Dade NOA and applied in accordance with manufacturer’s application instructions.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum roof coating applied in accordance with manufacturer’s application instructions.

**Maximum Design**

**Pressure:** -125 psf. (See General Limitation #9)



## CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.

## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c. or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

**Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

**END OF THIS ACCEPTANCE**



NOA No.: 18-0615.05  
Expiration Date: 08/08/23  
Approval Date: 08/02/18  
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