

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

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.

09/12/24

This NOA renews and revises NOA No. 19-0917.06 and consists of pages 1 through 34. The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING SYSTEM APPROVAL

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

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: Table 1

| <u>Product</u> | Dimensions | Test <u>Specification</u> | Product <u>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. |
| 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. |
| 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. |

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| <u>Product</u> | <u>Dimensions</u> | Test <u>Specification</u> | Product <u>Description</u> |
|--|--------------------------|------------------------------|--|
| 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. |
| 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. |
| | | | NOA No.: 23-0 |



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| <u>Product</u> | Dimensions | Test <u>Specification</u> | Product <u>Description</u> |
|---|-------------------------------|------------------------------|--|
| 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

| Product Name | Product Description | Manufacturer (With Current NOA) |
|--|----------------------------------|-------------------------------------|
| 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 | | |
|----------|---------|-------------|------------|--------------------|
| Fastener | Product | Product | | Manufacturer |
| Number | Name | Description | Dimensions | (With Current NOA) |
| 1. | N/A | N/A | N/A | N/A |



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EVIDENCE SUBMITTED:

| Test Agency/Identifier | <u>Report</u> | Name | Date |
|---------------------------------|-------------------------------------|--------------------------|--|
| FM Approvals | 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 | 06/21/24 |
| | R1306 | UL 790 | 08/12/24 |
| 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 07/17/12 |
| | G40620.07.12-2 G30250.02.10-3-R1 | ASTM D6222 ASTM D3909 | 07/17/12 05/15/10 |
| | G6850.11.08 | ASTM D3909 ASTM D6222 | 03/13/10 02/17/09 |
| | G6850.11.08 G6850.10.08 | ASTM D6222 ASTM D6222 | 10/06/08 |
| | G6830.10.08 G43190.11.13-1 | ASTM D6222 ASTM D6222 | 11/15/13 |
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EVIDENCE SUBMITTED: (CONTINUED)

| Test Agency/Identifier | <u>Report</u> | Name | <u>Date</u> |
|----------------------------|--------------------------|------------|-------------|
| Trinity ERD | SC6870.08.14-R1 | ASTM D3909 | 09/04/14 |
| | 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 |
| | 4S-GAF-18-001.01.19-1 | ASTM D6164 | 01/02/19 |
| | 4S-GAF-18-001.03.19.A-R1 | ASTM D6222 | 03/13/19 |
| | 4Q-GAF-20-SSMBB-01.A | ASTM D3909 | 03/04/21 |
| | 4q-GAF-21-SSMBB-02.A | ASTM D3909 | 12/02/21 |
| Atlantic & Caribbean Roof | 07-047 | TAS 114-D | 09/07/07 |
| Consulting | 07-032 | TAS 114-D | 05/10/07 |
| | 11-051 | TAS 114-D | 08/11/11 |
| PRI Construction Materials | GAF-314-02-01 | ASTM D2178 | 08/23/11 |
| Technologies LLC | 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-464-02-01 | ASTM C1289 | 02/05/14 |
| | GAF-498-02-01 | ASTM D6089 | 09/16/16 |
| | GAF-499-02-01 | ASTM D6083 | 05/19/16 |
| | GAF-629-02-01 | ASTM C1289 | 2/26/16 |
| | GAF-692-02-01 | ASTM C794 | 06/21/16 |
| | GAF-671-02-01 | TAS 139 | 06/30/16 |
| | 376T0275 | ASTM D2178 | 01/31/22 |
| | 376T0143 | ASTM D6164 | 08/23/21 |
| | 376T0144 | ASTM D6222 | 08/26/21 |
| | 376T0145 | ASTM D6222 | 08/26/21 |
| | 376T0241 | ASTM D6222 | 05/04/22 |
| | 376T0273 | ASTM D6222 | 07/14/22 |
| | 376T0230 | ASTM D6222 | 03/24/22 |
| | 376T0286 | ASTM C1289 | 06/27/22 |



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.

| Base Insulation Layer | Insulation Fasteners | Fastener |
|--|-----------------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RH Pol | yiso Insulation | |
| Minimum 1.5" thick | 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.

| Top Insulation Layer | Insulation Fasteners | Fastener |
|---|-----------------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| DensDeck [®] Prime [®] Roof Board, Securock [®] Gypsum-Fiber | Roof Board | |
| Minimum 0.25" thick | 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.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.



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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)



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| 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. |

| Insulation Layer | Insulation Fasteners | Fastener |
|---|-----------------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| DensDeck [®] Prime [®] Roof Board, Securock [®] Gypsum-Fiber | Roof Board, | |
| Structodek [®] High Density Fiber Board | | |
| Minimum 0.5" thick | 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 ³/₄" to 1" wide ribbons at a maximum spacing of 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Base Sh | neet: | 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. |
|---------|------------------------------|--|
| Membr | ane: | One ply of Liberty [™] SBS Self-Adhering Cap Sheet self-adhered. Applied to the base sheet in accordance with manufacturer's application instructions. |
| Surfaci | ng: | 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 sl asphalt at 6 | ag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved 0 lbs./sq. |
| 2. | EnergyCap | [®] Mineral Surfaced Cap Sheet, Tri-Ply [®] Mineral Surfaced Cap Sheet or GAFGLAS [®] [™] BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt hin the EVT range and at a rate of 20-40 lbs./sq. |
| 3. | | lembrane, Topcoat [®] MB Plus (to be used as a primer with Topcoat [®] Membrane) or urface Seal SB applied at 1 to 1.5 gal./sq. |
| 4 | A fibered a | luminum roof coating applied in accordance with manufacturer's application |

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. |

One or more layers of any of the following insulations.

| Base Insulation Layer (Optional) | Insulation Fasteners | Fastener |
|---|-----------------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RH Poly | viso Insulation | |
| Minimum 1.5" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| | | |
| DensDeck [®] Roof Board, Securock [®] Gypsum-Fiber Roof Bo | ard | |

Note: All layers of insulation shall be adhered to the deck with OlyBond 500[®] or OlyBond 500[®] Green applied in continuous ³/₄" 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. |
|--------------------------|--|
| 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. |



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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.
- 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)



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| 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. |

One or more layers of any of the following insulations.

| Base Insulation Layer (Optional) | Insulation Fasteners | Fastener |
|--|--------------------------------|-------------------------|
| EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RH P | (Table 3) olyiso Insulation | Density/ft ² |
| Minimum 1.5" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| Securock [®] Gypsum-Fiber Roof Board | | |
| Minimum 0.25" thick | 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 ³/₄" 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. |
|--------------------------|--|
| 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.
- 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)



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| 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. |

| One or more layers of any of the following insulations. | | |
|---|-----------------------------|-------------------------|
| Base Insulation Layer (Optional) | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RH Polyiso Insulation | | |
| Minimum 1.5" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| DensDeck [®] Roof Board, DensDeck [®] Prime Roof Board, Securock [®] Gypsum-Fiber Roof Board | | |
| Minimum 0.25" thick | 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 ³/₄" 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. |
|--------------------------|--|
| 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. |



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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.
- 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)



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| 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. |

One or more layers of any of the following insulations. **Base Insulation Layer (Optional) Insulation Fasteners** Fastener (Table 3) Density/ft² EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RH Polyiso Insulation Minimum 1.5" thick N/A N/A **Top Insulation Layer Insulation Fasteners** Fastener Density/ft² (Table 3) Securock[®] Gypsum-Fiber Roof Board Minimum 0.25" thick 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 ³/₄" 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. |
|--------------------------|--|
| 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. |



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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.
- 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)



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| 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. |

One or more layers of any of the following insulations.

| Insulation Layer | Insulation Fasteners | Fastener |
|---|----------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RA Po | olyiso Insulation, | |
| EnergyGuard [™] RH Polyiso Insulation, EnergyGuard [™] RI | N 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 ³/₄" 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. |
|--------------------------|---|
| 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.
- 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)



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| 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. |

One or more layers of any of the following insulations.

| Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| 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. |
|--------------------------|---|
| 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 [®] 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)



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| 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. |

One or more layers of any of the following insulations.

| Insulation Layer | Insulation Fasteners | Fastener |
|---|----------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| Securock [®] Gypsum-Fiber Roof Board | | |
| Minimum 0.25" thick | N/A | N/A |
| Note: Insulation shall be adhered to the deck or optional v OlyBond 500 [®] Green applied in continuous ³ / ₄ " to 1" ribbo | | |

refer to Roofing Application Standard RAS 117 for insulation attachment.

| refer to hooting rip | |
|--------------------------|---|
| 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. |
| 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 0 1 1 | |

- 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.
- 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)



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| Membra | ne Type: | APP/SBS |
|----------------------|----------------------------------|---|
| Deck Ty | • • | Concrete Decks, Insulated |
| | scription: | 2500 psi structural concrete or concrete plank |
| | • | All layers of insulation adhered to primed deck or vapor retarder with hot asphalt. Membrane is subsequently fully adhered. |
| Vapor R (Optiona | letarder: al) | 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. |
| Insulatio | on Layer: | See Insulation Maximum Design Pressure Table A. Design Pressure is dependent upon Insulation Option used in this system. |
| Base Sho | eet: | 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. |
| Ply Shee (Optiona | | One or more plies of Ruberoid [®] SBS Heat-Weld 25 or Ruberoid [®] SBS Heat-Weld Smooth applied in accordance with manufacturer's application instructions. |
| Membra | ine: | 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 |
| Surfacin | g: | with manufacturer's application instructions. 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 s asphalt at 6 | lag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved |
| 2. | GAFGLAS | b [®] Mineral Surfaced Cap Sheet, Tri-Ply [®] Mineral Surfaced Cap Sheet or b [®] EnergyCap [™] BUR Mineral Surfaced Cap Sheet adhered in a full mopping of sphalt applied within the EVT range and at a rate of 20-40 lbs./sq. |
| 3. | | Membrane, Topcoat [®] MB Plus (to be used as a primer with Topcoat [®] Membrane) or Surface Seal SB applied at 1 to 1.5 gal./sq. |
| 4. | | luminum roof coating applied in accordance with manufacturer's application |
| Maximu Pressure | instructions m Design e: S | s. See Table A (next page) for MDP Rating. |



| | Insulation Maximum Design Pressure Table A for assembly A(10) | | |
|------|---|--|--|
| Insu | ulation Layer Options: | | |
| 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. | | |
| | Maximum Design Pressure –217.5 psf. (See General Limitation #9) | | |
| | | | |
| 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. | | |
| | Maximum Design Pressure –210 psf. (See General Limitation #9) | | |
| | | | |



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| 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 of Membrane is subsequently fully adhered. | | bhalt. |
| Vapor Retarder: (Optional) | adhered in hot asphalt applied at 20-25 lb | 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 Lay | /er | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| | yiso Insulation, EnergyGuard [™] RH Poly Polyiso Insulation, EnergyGuard [™] RN 1 k | riso Insulation, | N/A |
| approved mopping | insulation shall be adhered to the prime asphalt applied within the EVT range a ion Standard RAS 117 for insulation att | nd at a rate of 20-40 lbs./sq | |
| Top Insulation Lay | | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| Securock [®] Gypsum Minimum 0.25" thic | | 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. | | |
| 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: | 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 | | Veld 170 FR, or Ruberoid [®] nufacturer's roid [®] Torch p [™] Torch |
| | instructions. 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 | | |



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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.
- 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)



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| 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. | | ved adhesive. |
| 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. | | |
| Base Insulation Lay | er | Insulation Fasteners | Fastener |
| EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RH Polyiso Insulation, EnergyGuard [™] RA Polyiso Insulation, EnergyGuard [™] RN Polyiso Insulation Minimum 1.5" thick N/A Note: Base insulation layer shall be adhered to the deck primed with ASTM D41 Asphalt Prime or Matrix [™] 307 Premium Asphalt Primer or optional vapor retarder with OlyBond 500 [®] or OlyBond 500 [®] Green applied in continuous ³ / ₄ " to 1" ribbons spaced 12" o.c. Please refer to Room | | 00® or | |
| Application Standard RAS 117 for insulation attachment.Top Insulation LayerInsulation FastenersFasteners | | | |
| Top Insulation Lay | | Insulation Fasteners | Fastener |
| Top Insulation Layo | er | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| | er Fiber Roof Board | | |
| Top Insulation Layo Securock [®] Gypsum- Minimum 0.25" thio Note: Top insulatio adhesive in ³ / ₄ " to 1" | er Fiber Roof Board | (Table 3) N/A 500 [®] or OlyBond 500 [®] Gre | Density/ft ² N/A een insulation |
| Top Insulation Layo Securock [®] Gypsum- Minimum 0.25" thio Note: Top insulatio adhesive in ³ / ₄ " to 1" | er Fiber Roof Board ek n layer shall be adhered with OlyBond ' beads wide ribbons spaced 12" o.c. Ple | (Table 3) N/A 500 [®] or OlyBond 500 [®] Gree ease refer to Roofing Appli Base/Ply Sheet applied to th | Density/ft ² N/A een insulation ication he insulation |
| Top Insulation Layo Securock [®] Gypsum- Minimum 0.25" thio Note: Top insulatio adhesive in ³ / ₄ " to 1" Standard RAS 117 f | er Fiber Roof Board ek n layer shall be adhered with OlyBond d beads wide ribbons spaced 12" o.c. Ple for insulation attachment. One ply of Liberty [™] SBS Self-Adhering | (Table 3) N/A 500 [®] or OlyBond 500 [®] Gree ease refer to Roofing Appli Base/Ply Sheet applied to the ith manufacturer's application at-Weld 25 or Ruberoid [®] SE | Density/ft ² N/A een insulation ication he insulation on 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.
- 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)



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| 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: (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. |

| Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| 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 ³/₄" to 1" ribbons at a maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Base She | tet: 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. |
|----------|---|
| Membra | ne: 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. |
| Surfacin | g: 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. |

| Insulation Layer | Insulation Fasteners | Fastener |
|---|-----------------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| DensDeck [®] Roof Board, Securock [®] Gypsum-Fiber Roof Boa | ard | |
| 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 ³/₄" 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 TM SBS Self-Adhering Base/Ply Sheet applied to the insulation with a minimum 4" lap 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.
- 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)



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| 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 Sys | tem Limitations shall apply. |

Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft2DensDeck® Roof Board, Securock® Gypsum-Fiber Roof BoardN/AN/A

Note: Insulation shall be adhered to the deck with OlyBond[®] 500 or OlyBond 500[®] Green applied in continuous ³/₄" 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.

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

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.

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.
- 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)



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| 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 |

One or more of any of the following insulation.

| Base Layer Insulation | Insulation Fasteners (Table 3) | Fastener Density ft ² |
|--|---|----------------------------------|
| EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] R | N Polyiso Insulation, | |
| EnergyGuard [™] RA Polyiso Insulation, EnergyGuard [™] | ^M RH Polyiso Insulation, | |
| EnergyGuard [™] Ultra Polyiso Insulation | | |
| Minimum 1" thick | N/A | N/A |
| Top Layer Insulation | Insulation Fasteners (Table 3) | Fastener Density ft ² |
| EnergyGuard [™] HD Polyiso Insulation, EnergyGuard | ^M HD Plus Polyiso Insulation | |
| Minimum 1/2" thick | 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 [™] | ¹ SBS Self-Adhering Base/Ply Sheet is self-adhered. |
|--------------------|----------------------|--|
| Duse sheet | | |

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 on granular surfaced membranes; required for smooth membranes. Chosen(Optional)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.
- 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)



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| 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. |
| | |

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 Sh | et: 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. | |
|---------------------|--|--|
| Ply Shee (Option | * | |
| Membra | ne: 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. | |
| Surfacin | g: 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



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