

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

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Sika Sarnafil, A Division of Sika Corp. 100 Dan Road Canton, MA 02021

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: Sika Sarnafil PVC Single Ply Roofing over Recover Deck

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 revises NOA No. 16-1004.01 and consists of pages 1 through 72. The submitted documentation was reviewed by Alex Tigera.

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ROOFING SYSTEM APPROVAL

Category:RoofingSub-Category:Single PlyMaterial:PVCDeck Type:Recover

Maximum Design Pressure: See Specific Assemblies

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

| | | Test | Product |
|---|------------------------|----------------------|---|
| Product | Dimensions | Specification | Description |
| G410 | 48, 60, 72 and 80 mils | ASTM D4434 | Fiberglass reinforced PVC roofing membrane. |
| G410 Textured | 48, 60, 72 and 80 mils | ASTM D4434 | Fiberglass reinforced PVC roofing membrane. |
| G410 Felt | 48, 60, 72 and 80 mils | ASTM D4434 | Fiberglass reinforced PVC roofing membrane with a non-woven felt backing. |
| G410 Felt Textured | 48, 60, 72 and 80 mils | ASTM D4434 | Fiberglass reinforced PVC roofing membrane with a non-woven felt backing. |
| S327 | 48, 60, 72 and 80 mils | ASTM D4434 | Polyester reinforced PVC roofing membrane. |
| S327 Textured | 60 mils | ASTM D4434 | Polyester reinforced PVC roofing membrane. |
| S327 (10 ft) | 48, 60, 72 and 80 mils | ASTM D4434 | Polyester reinforced PVC roofing membrane. |
| S327 Felt | 48, 60, 72 and 80 mils | ASTM D4434 | Polyester reinforced PVC roofing membrane with a non-woven felt backing. |
| Sikaplan Fastened | 45 mils and 60 mils | ASTM D4434 | White polyester reinforced PVC roofing membrane. |
| Sikaplan Fastened Feltback | 45 mils and 60 mils | ASTM D4434 | White polyester reinforced PVC roofing membrane. |
| Sikaplan Adhered | 60 mils | ASTM D4434 | White polyester reinforced PVC roofing membrane. |
| Sarnatape | Various | Proprietary | Air flow barrier tape |
| Sarnacol 2170 | 5 gallons | Proprietary | Solvent based bonding adhesive. |
| Sarnacol 2121 | 5 gallons | Proprietary | Water based bonding adhesive. |
| Sarnacol 2163 | | Proprietary | Insulation adhesive. |
| Sarnacol AD Feltback Membrane Adhesive | 5 gallons | Proprietary | Two-component foamable polyurethane membrane or insulation adhesive. |
| Sarnacol AD Board Adhesive | 5 gallons | Proprietary | Two-component foamable polyurethane insulation adhesive. |
| Sikaplan Water Based Membrane Adhesive | 5 gallons | Proprietary | Water-based dispersion membrane adhesive. |



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

| <u>Product</u> | Dimensions | Test Specification | Product <u>Description</u> |
|---|-------------------|--------------------|--|
| Sikaplan One Step Membrane Adhesive | 5 gallons | Proprietary | Water-based dispersion membrane adhesive. |
| Sarnacol OM Feltback Membrane Adhesive | 5 gallons | Proprietary | Two-component foamable polyurethane membrane adhesive. |
| Sarnacol OM Board Adhesive | 5 gallons | Proprietary | Two-component foamable polyurethane insulation adhesive. |
| Sarnacol 2170 VC | Various | Proprietary | Solvent-based, VOC compliant adhesive. |
| Sarnatred | 3.25' x 32.8' | Proprietary | PVC walkway protection sheet. |
| Sarnavap-10 | 20' x 100' | Proprietary | Polyethylene air/vapor barrier. |
| Sarnastack | Various | Proprietary | Prefabricated cone flashing. |
| Sarnaclad | Various | Proprietary | Heat weldable PVC/galvanized steel flashing |



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APPROVED INSULATIONS:

TABLE 2

| <u>Product</u> | Product <u>Description</u> | Manufacturer (With Current NOA) |
|--------------------------------------|---|--|
| Sarnatherm | Isocyanurate Insulation with fiber reinforced felt paper facer | Sika Sarnafil, A Division of Sika Corp. |
| Sarnatherm 25 PSI | Polyisocyanurate insulation with fiber reinforced felt paper facer | Sika Sarnafil, A Division of Sika Corp. |
| Sarnatherm (a) | Isocyanurate Insulation with fiber reinforced felt paper facer | Sika Sarnafil, A Division of Sika Corp. |
| Insulfoam EPS | Type IX Expanded polystyrene (EPS) | Insulfoam – a division of Carlisle Construction Materials, Inc. |
| Insulfoam R-Tech | Type IX Expanded polystyrene (EPS) | Insulfoam – a division of Carlisle Construction Materials, Inc. |
| Kingspan GreenGuard Insulation Board | Type IV Extruded polystyrene (XPS) | Kingspan Insulation LLC |
| STYROFOAM ROOFMATE | Type IV Extruded polystyrene (XPS) | The Dow Chemical company |
| STYROFOAM PLAZAMATE and HIGHLOAD 60 | Type IV Extruded polystyrene (XPS) | The Dow Chemical company |
| DensDeck | Silicon treated gypsum with fiberglass mat facer | Georgia Pacific Gypsum LLC |
| DensDeck Prime | Silicon treated gypsum with an enhanced fiberglass mat facer | Georgia Pacific Gypsum LLC |
| H-Shield | Isocyanurate Insulation with fiber reinforced felt paper facer | Hunter Panels, LLC |
| H-Shield HD | High density polyisocyanurate cover board with a coated glass facer | Hunter Panels, LLC |
| ENRGY 3 | Isocyanurate Insulation with fiber reinforced felt paper facer | Johns Manville Corp. |
| ENRGY 3 25 PSI | Isocyanurate Insulation with fiber reinforced felt paper facer | Johns Manville Corp. |
| ACFoam-II | Isocyanurate Insulation with fiber reinforced felt paper facer | Atlas Roofing Corp. |
| ACFoam-III | Isocyanurate Insulation with coated glass facer | Atlas Roofing Corp. |
| ACFoam-IV | Isocyanurate Insulation with heavy weight coated glass facer | Atlas Roofing Corp. |
| ACFoam Supreme | Isocyanurate Insulation with foil facer | Atlas Roofing Corp. |
| ISO 95+ GL | Isocyanurate Insulation with fiber reinforced felt paper facer | Firestone Building Products Company, LLC |
| SECUROCK Gypsum-Fiber Roof Board | Gypsum-fiber cover board | United States Gypsum Corp. |



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APPROVED INSULATIONS:

TABLE 2

| Product | Product <u>Description</u> | Manufacturer (With Current NOA) |
|----------------------------------|---|------------------------------------|
| SECUROCK Glass-Mat Roof Board | Gypsum cover board with a glass mat facer | United States Gypsum Corp. |
| Invinsa Roof Board | High density polyisocyanurate cover board with a coated glass facer | Johns Manville Corp. |

APPROVED FASTENERS / ADHESIVES:

TABLE 3

| Fastener Number | <u>Product</u> <u>Name</u> | <u>Product</u> <u>Description</u> | Dimensions | <u>Manufacturer</u> (With Current NOA) |
|--------------------|--|--|--------------------|---|
| 1. | Dekfast 12, 14 & 15 HS | Insulation fastener for wood, steel and concrete decks | | SFS Intec, Inc. |
| 2. | Dekfast Galvalume Steel Hex | Galvalume hex stress plate. | 2 7/8" x 3 1/4" | SFS Intec, Inc. |
| 3. | #12 Standard Roofgrip, #14 Roofgrip & #15 Roofgrip | Insulation fastener for wood, steel and concrete. | | OMG, Inc. |
| 4. | AccuTrac Hextra | Insulation fastener for wood, steel and concrete | | OMG, Inc. |
| 5. | ASAP Hex Head Pre- Assembled System | Pre-assembled Insulation fastener and plate | | OMG, Inc. |
| 6. | OMG 3" Galvalume Steel Plate | Galvalume stress plate. | 3" round | OMG, Inc. |
| 7. | AccuTrac Plate | Galvalume stress plate. | 3" square | OMG, Inc. |
| 8. | OMG Plastic Plate | Polypropylene round plate | 3" round | OMG, Inc. |
| 9. | ASAP RoofGrip Pre- Assembled System | Pre-assembled Insulation fastener and plate | Various | OMG, Inc. |
| 10. | 3 in. Round Metal Plate | 3" round galvalume AZ50 steel plate | 3" round | OMG, Inc. |
| 11. | OMG XHD | Insulation and membrane fastener | Various | OMG, Inc. |
| 12. | OMG Super XHD | Insulation and membrane fastener | Various | OMG, Inc. |
| 13. | OMG Heavy Duty | Insulation and membrane fastener | Various | OMG, Inc. |
| 14. | CD-10 | Carbon steel fastener for concrete decks | Various | OMG, Inc. |
| 15. | Sarnafastener #12 | Insulation fastener for various decks | Various | Sika Sarnafil, A Division of Sika Corp. |
| 16. | Sarnaplate | 3" square galvalume AZ50 steel plate | 3" square | Sika Sarnafil, A Division of Sika Corp. |



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APPROVED FASTENERS / ADHESIVES:

TABLE 3

| <u>Fastener</u> <u>Number</u> | <u>Product</u> <u>Name</u> | Product Description | <u>Dimensions</u> | <u>Manufacturer</u> (With Current NOA) |
|----------------------------------|--|---|---|---|
| 17. | Dekfast System ES #12 Plastic | Pre-assembled Insulation fastener and plate | Various | SFS Intec, Inc. |
| 18. | Dekfast Isofast IF/IG-C-82X40 | Galvalume steel plate | 1.5" x 3.2" | SFS Intec, Inc. |
| 19. | Sarnarail Polymer Batten Strip | Polymer batten bar | 0.75" x 250' | Sika Sarnafil, A Division of Sika Corp. |
| 20. | Sarnafastener-XP | Insulation and membrane fastener | Various | Sika Sarnafil, A Division of Sika Corp. |
| 21. | Sarnafil MAXLoad, Sarnafastener MAXLoad | Membrane and insulation fastener. | Various | Sika Sarnafil, A Division of Sika Corp. |
| 22. | Sarnadisc XPN | Insulation and membrane fastener | 1.5" x 3.75" | Sika Sarnafil, A Division of Sika Corp. |
| 23. | RhinoBond Insulation Plate | Membrane fastening plate | Various | OMG, Inc. |
| 24. | OMG Purlin | Membrane and insulation fastener | Various | OMG, Inc. |
| 25. | Sarnabar | Galvanized or stainless steel membrane fastening bar. | Various | Sika Sarnafil, A Division of Sika Corp. |
| 26. | Sarnadisc MAXLoad Plate | AZ50 galvalume coated steel plate | 3.5" Round | Sika Sarnafil, A Division of Sika Corp. |
| 27. | 3 in. Ribbed Galvalume Plate | Round Galvalume plated steel stress plate | 3" Round | OMG, Inc. |
| 28. | Flat Bottom Metal Plate | Insulation fastening plate. | 3" Round | OMG, Inc. |
| 29. | Sikaplan Fastener #14 | Insulation and membrane fastener | Various | Sika Sarnafil, A Division of Sika Corp. |
| 30. | Sikaplan Fastener #15 | Insulation and membrane fastener | Various | Sika Sarnafil, A Division of Sika Corp. |
| 31. | Sikaplan Board Plate | Round galvalume plated steel stress plate | 3" Round | Sika Saranfil, A Division of Sika Corp. |
| 32. | Sarnadisc RhinoBond | Black primer coated plate for use with PVC membranes | 3" Round | Sika Sarnafil, A Division of Sika Corp. |
| 33. | Sikaplan RhinoBond Disc | Black primer coated plate for use with PVC membranes | 3" Round | Sika Sarnafil, A Division of Sika Corp. |
| 34. | Sikaplan Board Fastener #12 | Insulation fastener for various decks | Various | Sika Sarnafil, A Division of Sika Corp. |
| 35. | OMG OlyBond 500 Adhesive | Spray polyurethane foam insulation adhesive | 10 gal. bag- in-box set and 1.5 liters SpotShot cartridge | OMG, Inc. |



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APPROVED FASTENERS / ADHESIVES:

TABLE 3

| <u>Fastener</u> <u>Number</u> | <u>Product</u> <u>Name</u> | <u>Product</u> <u>Description</u> | Dimensions | <u>Manufacturer</u> (With Current NOA) |
|----------------------------------|---|---|--|---|
| 36. | Millennium One Step Foamable Adhesive | Polyurethane one-step, all-purpose, foamable adhesive | 1.5 liters | Adco Products, Inc. d.b.a. Royal Adhesives & Sealants, Inc. |
| 37. | Millennium PG-1 Low Viscosity Insulation Adhesive | Polyurethane two component low rise adhesive. | 5 gal to 50 gal Part (A) or Part (B) | Adco Products, Inc. d.b.a. Royal Adhesives & Sealants, Inc. |
| 38. | ICP Adhesive CR-20 | Polyurethane two component low rise insulation adhesive | Two kits (A = 40lb and B = 35lb cylinders) | ICP Adhesives & Sealants, Inc. |



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EVIDENCE SUBMITTED:

| EVIDENCE SUDMITTED: | | | |
|---------------------------------|------------------------|---------------------|-------------|
| Test Agency | Test Identifier | Description | Date |
| Celotex Technical Center | MTS Job No. 258215 | TAS 114 | 09/09/97 |
| Factory Mutual Research | 0X3A3.AM | FM 4470 | 01/31/94 |
| Corporation | 2X2A5.AM | FM 4470 | 01/31/94 |
| r | 0P6A6.AM | FM 4470 | 03/03/94 |
| | 0B9A0.AM | FM 4470 | 10/22/96 |
| | 4B3A2.AM | FM 4470 | 06/19/97 |
| | 1B7A5.AM | FM 4470 | 02/23/98 |
| | 3001580 | FM 4470 | 11/16/98 |
| | 3001396 | FM 4470 | 05/28/99 |
| | 3003337 | FM 4470 | 06/11/99 |
| | 3008869 | FM 4470 | 03/19/01 |
| | 3012964 | FM 4470 | 06/11/02 |
| | 3012321 | FM 4470 | 07/29/02 |
| | 3015643 | FM 4470 | 12/06/02 |
| | 3016201 | FM 4470 | 01/28/03 |
| | 3014692 | FM 4470 | 08/05/03 |
| | 3014751 | FM 4470 | 08/27/03 |
| | 3018579 | FM 4450 | 10/09/03 |
| | 3006785 | FM 4470 | 05/06/04 |
| | 3017292 | FM 4470 | 09/03/04 |
| | 3024229 | FM 4470 | 11/16/05 |
| | 3024311 | FM 4470 | 11/01/06 |
| | 3028309 | FM 4470 | 03/30/07 |
| | 3030053 | FM 4470 | 09/12/07 |
| | 3029404 | FM 4470 | 09/09/08 |
| | 3035670 | FM 4470 | 05/13/09 |
| | 3036355 | FM 4470 | 11/10/09 |
| | 3039809 | FM 4470 | 07/06/11 |
| | 3041256 | FM 4470 | 07/12/11 |
| | 3043459 | FM 4470 | 05/11/12 |
| | 3053265 | FM 4470 | 10/30/14 |
| Underwriters Laboratories, Inc. | R8992 | UL 790 | 05/15/13 |
| Trinity ERD | 4740.04.98-1 | FM 4470 | 04/09/98 |
| | S42480.08.12 | Physical Properties | 08/20/12 |
| | S44790.06.13 | ASTM D4434 | 06/05/13 |
| | S44790.08.13 | ASTM D4434 | 08/26/13 |
| | S45990.06.14 | ASTM D4434 | 06/02/14 |
| | S44790.07.14-R2 | ASTM D4434 | 06/01/15 |



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DECK STRESS ANALYSIS CALCULATIONS/REPORTS

| Engineer/Agency | <u>Identifier</u> | Assemblies | <u>Date</u> |
|-----------------------------|----------------------------|---|-------------|
| Robert Nieminen, P.E. | Signed/Sealed Calculations | D(13) | 04/29/16 |
| FM Approval Deck Limitation | N/A | C(3) through C(14), C(17), C(18), D(1) through D(12) | 06/22/16 |



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APPROVED ASSEMBLIES

Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: Concrete

System Type A(1): One or more layers of insulation fully adhered with approved asphalt, membrane adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier An FM approved vapor barrier approved for use with hot asphalt may be applied to the deck

(Optional): or base insulation layer

Fire Barrier Minimum 1/4" Type X Gypsum or DensDeck

(Optional):

One or more layers of any of the following insulations:

<u>Insulation Layer:</u> <u>Insulation Fasteners</u> <u>Fastener Density/ft²</u>

(Table 3)

Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI (bottom layer only), ACFoam-III, ACFoam-IIII, ACFoam-IIIIII, ACFoam-IIIII, ACFoam-IIII, ACFoam-IIII, ACFoa

Supreme, H-Shield any of the above tapered

Minimum 1.3" thick N/A N/A

Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ISO 95+ GL, ENRGY 3

25 PSI, H-Shield

Minimum 1.4" thick or tapered N/A N/A

DensDeck Prime

Minimum ¼" thick N/A N/A

Note: Existing roof shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Membrane: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive

roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal./sq. to the substrate allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal./sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighed roller. Minimum 3" wide side lap

is sealed with a 1.5" wide heat weld.

Or



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(*With ISO*) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at a rate of 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(*With DensDeck Prime*) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With ACFoam-II, ACFoam-III, H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI or DensDeck Prime) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Or

(With ACFoam-III, ACFoam-III, H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI or DensDeck Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure:

-45 psf. (See General Limitation #9)



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Deck Description: Concrete

System Type A(2): One or more layers of insulation fully adhered with approved asphalt, membrane adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier An FM approved vapor barrier approved for use with hot asphalt may be applied to the deck

(Optional): or base insulation layer

Fire Barrier Minimum 1/4" Type X Gypsum or DensDeck

(Optional):

One or more layers of any of the following insulations:

<u>Insulation Layer:</u> <u>Insulation Fasteners</u> <u>Fastener Density/ft²</u>

(Table 3)

Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI (bottom layer only), ACFoam-III, ACFoam-IIII, ACFoam-IIIII, ACFoam-IIIII, ACFoam-IIII, ACFoam-IIII, ACFoa

Supreme, H-Shield any of the above tapered

Minimum 1.3" thick N/A N/A

Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ISO 95+ GL, ENRGY 3

25 PSI, H-Shield

Minimum 1.4" thick or tapered N/A N/A

DensDeck Prime

Minimum ¹/₄" thick N/A N/A

Note: Existing roof shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Membrane: (*With ISO*) Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan

One Step Membrane Adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at a rate of 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide

heat weld.

Or



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Maximum Design

Pressure: -45 psf. (See General Limitation #9)



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Deck Description: Concrete

System Type A(3): One or more layers of insulation adhered with approved <u>adhesive</u>, membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier

FM approved vapor barrier approved for use with hot asphalt may be applied to the deck or

(Optional):

base insulation layer.

Fire Barrier (Optional):

Minimum 1/4" Type X Gypsum or DensDeck.

One or more layers of any of the following insulations:

Base Insulation Layer: Insulation Fasteners (Table 3) Fastener Density/ft²

Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ISO 95+ GL, ENRGY 3

Maximum 1" thick N/A N/A

DensDeck Prime

Minimum 5/8" thick N/A N/A

Note: Insulation shall be adhered to the deck in full coating of OlyBond Adhesive Fastener at a rate of 1 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate

Membrane:

Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(*With ISO*) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 14 of 72 (*With DensDeck Prime*) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(*With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime*) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Or

(With ACFoam-III, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressures:

-45 psf. (See General Limitation #9)



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Deck Description: Concrete

System Type A(4): One or more layers of insulation adhered with approved <u>adhesive</u>, membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier FM approved vapor barrier approved for use with hot asphalt may be applied to the deck or

(Optional): base insulation layer.

Fire Barrier Minimum 1/4" Type X Gypsum or DensDeck.

(Optional):

One or more layers of any of the following insulations:

Base Insulation Layer: Insulation Fasteners (Table 3) Fastener Density/ft²

Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ISO 95+ GL, ENRGY 3

Maximum 1" thick N/A N/A

DensDeck Prime

Minimum 5/8" thick N/A N/A

Note: Insulation shall be adhered to the deck in full coating of OlyBond Adhesive Fastener at a rate of 1 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate

Membrane: (With ISO) Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan

One Step Membrane Adhesive roller applied at 0.75 gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(*With DensDeck Prime*) Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step Membrane Adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted

roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design

Pressures: -45 psf. (See General Limitation #9)



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Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(5): One or more layers of insulation adhered with approved <u>adhesive</u>, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of the following insulations:

| Base Insulation Layer (Optional): | <u>Insulation Fasteners</u> (Table 3) | <u>Fastener</u> Density/ft ² |
|---|--|--|
| Insulfoam EPS (Not used with Sarnacol 2170 or Sar Minimum 2" thick | <u> </u> | N/A |
| Top Insulation Layer: | <u>Insulation Fasteners</u> (Table 3) | <u>Fastener</u> Density/ft ² |
| DensDeck Prime Minimum 0.25" thick | N/A | N/A |

Note: All insulation shall be adhered to the deck in 3/4" – 1" wide beads 12" o.c. of Sarnacol OM Board Adhesive, OMG OlyBond 500 Adhesive or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane:

Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation or with Sarnacol 2170 VC adhesive roller applied at 0.75-2gal/sq to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Or



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 17 of 72 Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure:

- -112.5 psf; Felt membranes with Sarnacol 2121 adhesive (See General Limitation #9)
- -120 psf; with all other applications (See General Limitation #9)



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Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(6): One or more layers of insulation adhered with approved <u>adhesive</u>, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of the following insulations:

Base Insulation Layer (Optional): Insulation Fasteners Fastener (Table 3) Density/ft² Insulfoam EPS (Not used with Sarnacol 2170 or Sarnacol 2170 VC) Minimum 2" thick N/A N/A **Top Insulation Layer: Insulation Fasteners Fastener** (Table 3) Density/ft² **DensDeck Prime** Minimum 0.25" thick N/A N/A

Note: All insulation shall be adhered to the deck in 3/4" – 1" wide beads 12" o.c. of Sarnacol OM Board Adhesive, OMG OlyBond 500 Adhesive or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step

Membrane Adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design

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



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Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(7): One or more layers of insulation adhered with approved <u>adhesive</u>, membrane fully

adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier Any UL or FM approved asphaltic vapor barrier may be installed over the deck or the base

(**Optional**): layer of insulation

One or more layers of the following insulations:

Base Insulation Layer (Optional): Insulation Fasteners (Table 3) Fastener Density/ft²

Sarnatherm, Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ISO 95+ GL, H-Shield Minimum 1.5" thick

N/A

N/A

Top Insulation Layer:Insulation FastenersFastener(Table 3)Density/ft²

DensDeck Prime

Minimum 0.25" thick N/A N/A

Note: All insulation shall be adhered to the deck in 3/4" – 1" wide beads 12" o.c. of Sarnacol OM Board Adhesive, OMG OlyBond 500 Adhesive or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1); Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the

insulation layers as specified below.

Attachment #1: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with

Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum

1.25" wide heat weld.

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

Attachment #2: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with

Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide

heat weld.

Maximum Design Pressure: -150.0 psf; with asphaltic vapor Barrier (See General

Limitation #9)



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 20 of 72 **Membrane (Option 2):** Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

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

Attachment #4: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -150.0 psf; with asphaltic vapor Barrier (See General Limitation #9)

Maximum Design Pressures:

See Attachment. (See General Limitation #9)



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Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(8): One or more layers of insulation adhered with approved <u>adhesive</u>, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of the following insulations:

| Base Insulation Layer: | <u>Insulation Fasteners</u> (Table 3) | Fastener Density/ft ² |
|---|---|---------------------------------------|
| Kingspan GreenGuard Insulation Board, STYRO HIGHLOAD 60 | DFOAM ROOFMATE, STYROFOAM PLAZ | ZAMATE and |
| Minimum 1" thick | N/A | N/A |
| Top Insulation Layer: | <u>Insulation Fasteners</u> (<u>Table 3</u>) | <u>Fastener</u> <u>Density/ft²</u> |
| DensDeck Prime Minimum 0.25" thick | N/A | N/A |

Note: All insulation shall be adhered to the deck in $\frac{3}{4}$ " - 1" wide beads 12" o.c. of Sarnacol OM Board Adhesive, OMG OlyBond 500 Adhesive or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the

insulation layers as specified below.

Attachment #1: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with

Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide

heat weld.

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

Membrane (Option 2): Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as

specified below.

Attachment #1: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive

roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9)



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 22 of 72 Attachment #2:

Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3:

Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

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

Maximum Design Pressures:

See Attachment. (See General Limitation #9)



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Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(9): One or more layers of insulation adhered with approved <u>adhesive</u>, membrane fully adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of the following insulations:

| Base Insulation Layer: | Insulation Fasteners | Fastener |
|---|-----------------------------|-------------------------|
| | <u>(Table 3)</u> | Density/ft ² |
| Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, | ACFoam-III, ENRGY 3, ISO | 95+ GL, H-Shield |
| Minimum 1.5" thick | N/A | N/A |
| DensDeck Prime | | |
| Minimum 0.25" thick | N/A | N/A |
| Top Insulation Layer: | Insulation Fasteners | <u>Fastener</u> |
| | <u>(Table 3)</u> | Density/ft ² |
| DensDeck Prime | | |

Note: All insulation shall be adhered to the deck in full coating of OlyBond Adhesive Fastener at a rate of 1 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the

insulation layers as specified below.

Attachment #1: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with

Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum

N/A

1.25" wide heat weld.

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

Attachment #2: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with

Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide

heat weld.

Maximum Design Pressure: -150.0 psf. (See General Limitation #9)



Minimum 0.25" thick

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N/A

Membrane (Option 2); Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

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

Attachment #4: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -150.0 psf. (See General Limitation #9)

Maximum Design

Pressures: See Attachment. (See General Limitation #9)



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Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(10): One or more layers of insulation adhered with approved <u>adhesive</u>, membrane fully

adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier Any UL or FM approved asphaltic vapor barrier may be installed over the deck or the base

(**Optional**): layer of insulation

One or more layers of the following insulations:

Insulation Layer:Insulation Fasteners
(Table 3)Fastener
Density/ft²Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield
Minimum 1.5" thickN/AN/A

DensDeck Prime

Minimum 0.25" thick N/A N/A

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Sarnacol 2163, Sarnacol AD Board Adhesive, Sarnacol AD Feltback Membrane Adhesive, Millennium One Step Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the

insulation layers as specified below.

Attachment #1: (With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI) Sarnafil G410,

G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25"

wide heat weld.

Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: (With DensDeck Prime) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10

ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the

adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

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



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 26 of 72 Attachment #3: (*With DensDeck Prime*) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -157.5 psf; with asphaltic vapor barrier (See General Limitation #9)

Attachment #4: (*With ISO*) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide best world.

Maximum Design Pressure -232.5 psf; without vapor barrier (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld. *Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure: -120.0 psf. (See General Limitation #9)



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 27 of 72 Attachment #4: (With DensDeck Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with

Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

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

Attachment #5: (With DensDeck Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with

Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat

weld.

Maximum Design Pressure: -157.5 psf; with asphaltic vapor barrier (See General

Limitation #9)

Maximum Design Pressures:

See Attachment. (See General Limitation #9)



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Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(11): One or more layers of insulation adhered with approved adhesive, membrane fully

adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier Any UL or FM approved asphaltic vapor barrier may be installed over the deck or the base

(Optional): layer of insulation

One or more layers of the following insulations:

 Insulation Layer:
 Insulation Fasteners
 Fastener

 (Table 3)
 Density/ft²

 Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield
 N/A

 Minimum 1.5" thick
 N/A

 DensDeck Prime

DensDeck Prime

Minimum 0.25" thick N/A N/A

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Sarnacol 2163, Sarnacol AD Board Adhesive, Sarnacol AD Feltback Membrane Adhesive, Millennium One Step Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: (With ISO) Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or

Sikaplan One Step Membrane Adhesive roller applied at 0.75 gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design

Pressures:

-232.5 psf. (See General Limitation #9)



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Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(12): One or more layers of insulation adhered with approved <u>adhesive</u>, membrane fully

adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier (Optional):

Any UL or FM approved vapor barrier may be installed over the deck.

One or more layers of any of the following insulations:

Insulation Layer:Insulation Fasteners
(Table 3)Fastener
Density/ft²Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ISO 95+GL, H-Shield
Minimum 1.5" thickN/AN/ADensDeck Prime
Minimum 0.5" thickN/AN/A

Note: All insulation shall be adhered to the deck in 3-3.5" wide beads spaced 12" o.c. of ICP Adhesive CR-20. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the

insulation layers as specified below.

Attachment #1: (With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI) Sarnafil G410,

G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25"

wide heat weld.

Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: (With DensDeck Prime) Sarnafil G410, G410 Felt Textured, S327, S327 Textured or S327

(10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is

sealed with a minimum 1.25" wide heat weld.

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



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Attachment #3: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with

Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -232.5 psf; with asphaltic vapor barrier (See General Limitation #9)

Membrane (Option 2); Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as

specified below.

Attachment #1: (With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI) Sarnafil G410

Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive

roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (With ACFoam-III, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck

Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a

minimum 1.25" wide heat weld.

Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #4: (With DensDeck Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with

Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum

1.25" wide heat weld.

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

Attachment #5: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 adhesive

applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -232.5 psf; with asphaltic vapor barrier (See General

Limitation #9)

Maximum Design

See Attachment. (See General Limitation #9)

Pressures:



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Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(13): One or more layers of insulation adhered with approved <u>adhesive</u>, membrane fully

adhered

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier (Optional):

Any UL or FM approved vapor barrier may be installed over the deck.

One or more layers of any of the following insulations:

 Insulation Layer:
 Insulation Fasteners
 Fastener

 (Table 3)
 Density/ft²

Minimum 0.5" thick N/A N/A

Note: All insulation shall be adhered to the deck in 3-3.5" wide beads spaced 12" o.c. of ICP Adhesive CR-20. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane (Option 1): Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the

insulation layers as specified below.

Attachment #1: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with

Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum

1.25" wide heat weld.

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

Attachment #2: (With Vapor Barrier) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft)

adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is

sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -202.5 psf. (See General Limitation #9)



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 32 of 72 **Membrane (Option 2):** Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

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

Attachment #4: (*With Vapor Barrier*) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat

Maximum Design Pressure: -202.5 psf. (See General Limitation #9)

Maximum Design

Pressures: See Attachment. (See General Limitation #9)



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 33 of 72 Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: Min. 33ksi, 22ga. steel

System Type C(1): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:

Insulation Fasteners
(Table 3)

Fastener Density/ft²

ACFoam-III

Minimum 1.5" thick 15 with 16 1:2 ft²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol

2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Or

Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design

Pressure: -45 psf (See General Limitation #9)



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 34 of 72 Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: Min. 33ksi, 22ga. steel

System Type C(2): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:

Insulation Fasteners
(Table 3)

Fastener Density/ft²

ACFoam-III

Minimum 1.5" thick 15 with 16 or 34 with 31 1:2 ft²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step

Membrane Adhesive roller applied at a rate of 0.75 gal/sq. to the insulation. The roof cover is

immediately placed into the adhesive and the top surface rolled with a weighted roller.

Minimum 3" wide side lap is sealed with a minimum 1.25" wide heat weld.

Maximum Design

Pressure: -45 psf (See General Limitation #9)



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Deck Description: Min. 33ksi, 16-22ga. steel

System Type C(3): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate

bonding tool.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Base Insulation Layer:</u>

<u>Insulation Fasteners</u>

(Table 3)

<u>Fastener Density/ft²</u>

1

Sarnatherm, H-Shield Minimum 1.0" thick

Iinimum 1.0" thick 20 with 32 or 12 with 23 See Design Pressure

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327, S327 Textured or S327 (10 ft) bonded to RhinoBond Insulation Plates with

RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3"

wide side lap is sealed with a minimum 3/4" wide heat weld.

Maximum Design Maximum Pressure Fastener Spacing Fastener Row Spacing Pressures: -45.0 psf 2 ft. 3 ft.

(See General Limitation #9)



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Deck Description: Min. 33ksi, 16-22ga. steel

System Type C(4): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate

bonding tool.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:

Insulation Fasteners
(Table 3)

Fastener Density/ft²

Sarnatherm, H-Shield

Minimum 1.0" thick 30 with 33 or 20 with 32 See Design Pressure

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan Fastened bonded to Sikaplan RhinoBond Disc with Sikaplan Fastener #15 or

Sarnadisc RhinoBond with Sarnafastener #15 using RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3" wide side lap is sealed with a minimum 3/4"

wide heat weld.

Maximum Design Maximum Pressure Fastener Spacing Fastener Row Spacing Pressures: -45.0 psf 2 ft. 3 ft. (See General Limitation #9)



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Deck Description: 16 – 22ga., Type B Grade 33 steel deck fastened to 0.25 in. thick structural supports spaced 6

ft. o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1

fasteners spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(5): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate

bonding tool.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer (Optional): | Insulation Fasteners | Fastener Density/ft ² |
|-----------------------------------|-----------------------------|----------------------------------|
| | <u>(Table 3)</u> | |
| Sarnatherm, H-Shield | | |
| Maximum 1" thick | N/A | N/A |

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Top Insulation Layer: | Insulation Fasteners | Fastener Density/ft ² |
|--|-----------------------|----------------------------------|
| | <u>(Table 3)</u> | |
| Any approved cover board listed in Table 2 | | |
| Minimum 0.25" thick | 20 with 32 or 12 with | See Design Pressure |
| | 23 | |

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Membrane: | Sarnafil S327, S327 Textured or S327 (10 ft) bonded to RhinoBond Insulation Plates with |
|-----------|--|
| | RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Side lap is |
| | sealed with minimum ³ / ₄ " wide heat weld. |

| Maximum Design | Maximum Pressure | Fastener Spacing | Fastener Row Spacing |
|----------------|-----------------------------|-------------------------|-----------------------------|
| Pressures: | -45 psf | 2 ft. | 3 ft. |
| i i essui es. | (See General Limitation #7) | | |
| | -60 psf | 2 ft. | 2 ft. |
| | (See General Limitation #7) | | |



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Deck Description: 16 – 22ga., Type B Grade 33 steel deck fastened to 0.25 in. thick structural supports spaced 6

ft. o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1

fasteners spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(6): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate

bonding tool.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer (Optional): | Insulation Fasteners | Fastener Density/ft ² |
|--|-----------------------------|----------------------------------|
| | <u>(Table 3)</u> | |
| Sarnatherm, H-Shield | | |
| Maximum 1" thick | N/A | N/A |

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| <u>Top Insulation Layer:</u> | Insulation Fasteners | <u>Fastener Density/ft²</u> |
|--|-----------------------|--|
| | <u>(Table 3)</u> | |
| Any approved cover board listed in Table 2 | | |
| Minimum 0.25" thick | 30 with 33 or 20 with | See Design Pressure |
| | 32 | |

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sikaplan Fastened bonded to Sikaplan RhinoBond Disc with Sikaplan Fastener #15 or Sarnadisc RhinoBond with Sarnafastener #15 using RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Side lap is sealed with minimum 3/4" wide heat

weld.

| Maximum Design | Maximum Pressure | Fastener Spacing | Fastener Row Spacing |
|----------------|-----------------------------|------------------|----------------------|
| Pressures: | -45 psf | 2 ft. | 3 ft. |
| i i essui es. | (See General Limitation #7) | | |
| | -60 psf | 2 ft. | 2 ft. |
| | (See General Limitation #7) | | |



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Deck Description: 16 – 22ga., Type B, Grade 80 steel deck fastened 0.25 in thick structural supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1 fasteners

spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(7): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer: | Insulation Fasteners | Fastener Density/ft ² |
|-------------------------------|----------------------|----------------------------------|
| Sarnatherm, H-Shield | <u>(Table 3)</u> | |
| Maximum 1" thick | N/A | N/A |

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Top Insulation Layer (Optional): | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|----------------------------------|
| Any approved cover board listed in Table 2 | | |
| Minimum 0.25" thick | 20 with 32 or 12 with | See Design Pressure |

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sarnafil S327, S327 Textured or S327 (10 ft) bonded to RhinoBond Insulation Plates with Rhino Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Side lap is sealed

with minimum 3/4" wide heat weld.

| | Maximum Pressure | Fastener Spacing | Fastener Row Spacing |
|------------------------------|--|-------------------------|-----------------------------|
| Maximum Design Pressures: | -45 psf (See General Limitation #7) | 2 ft. | 3 ft. |
| | -60 psf) (See General Limitation #7 | 2 ft. | 2 ft. |



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Deck Description: 16 – 22ga., Type B, Grade 80 steel deck fastened 0.25 in.thick structural supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1 fasteners

spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(8): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer: | Insulation Fasteners | Fastener Density/ft ² |
|-------------------------------|----------------------|----------------------------------|
| Sarnatherm, H-Shield | <u>(Table 3)</u> | |
| Maximum 1" thick | N/A | N/A |

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Top Insulation Layer (Optional): | Insulation Fasteners | Fastener Density/ft ² |
|--|-----------------------------|----------------------------------|
| | <u>(Table 3)</u> | |
| Any approved cover board listed in Table 2 | | |
| Minimum 0.25" thick | 30 with 33 or 20 with | See Design Pressure |
| | 32 | |

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sikaplan Fastened bonded to Sikaplan RhinoBond Disc with Sikaplan Fastener #15 or Sarnadisc RhinoBond with Sarnafastener #15 using Rhino Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Side lap is sealed with minimum ³/₄" wide heat weld.

| | Maximum Pressure | Fastener Spacing | Fastener Row Spacing |
|------------------------------|--|-------------------------|-----------------------------|
| Maximum Design Pressures: | -45 psf (See General Limitation #7) | 2 ft. | 3 ft. |
| | -60 psf) (See General Limitation #7 | 2 ft. | 2 ft. |



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Deck Description: 18-22 ga., Grade 33 steel deck fastened to the 0.25" thick structural supports spaced

maximum 6' o.c. with one #12 ICH Traxx 5 fastener spaced maximum 6 in. o.c. and with

side laps secured with one #10 ICH Traxx 1 fastener spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(9): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate

bonding tool.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer: <u>Insulation Fasteners</u> <u>Fastener Density/ft²</u>

(Table 3)

Sarnatherm, H-Shield

Maximum 1.0" thick 20 with 32 or 11 with See Design Pressure

23

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327, S327 Textured or S327 (10 ft) bonded to RhinoBond Insulation Plates with

RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3"

wide side lap is sealed with a minimum 3/4" wide heat weld.

Maximum Design

Maximum Pressure
-60.0 psf

Fastener Spacing
2 ft.

2 ft.

2 ft.

Pressures: -60.0 psf 2 ft. 2

(See General Limitation #7)



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Deck Description: 18-22 ga., Grade 33 steel deck fastened to the 0.25" thick structural supports spaced

maximum 6' o.c. with one #12 ICH Traxx 5 fastener spaced maximum 6 in. o.c. and with

side laps secured with one #10 ICH Traxx 1 fastener spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(10): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate

bonding tool.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer: <u>Insulation Fasteners</u> <u>Fastener Density/ft²</u>

(Table 3)

Sarnatherm, H-Shield

Maximum 1.0" thick 30 with 33 or 20 with See Design Pressure

32

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan Fastened bonded to Sikaplan RhinoBond Disc with Sikaplan Fastener #15 or

Sarnadisc RhinoBond with Sarnafastener #15 using RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3" wide side lap is sealed with a

minimum 3/4" wide heat weld.

Maximum Design

Maximum Pressure
Fastener Spacing
Fastener Row Spacing

Pressures: -60.0 psf 2 ft. 2 ft. (See General Limitation #7)



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Deck Description: Min. 18-20ga., Type B, Grade 80 steel deck fastened to 0.25 in. thick structural supports

spaced 6 ft. o.c. with two Traxx/5 fasteners, with ¾ in. washers, at each rib spaced 6 in. o.c. in rows above each support 6 ft. o.c. and with side laps fastened with Traxx/1 fasteners spaced 24

in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(11): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:

Insulation Fasteners
(Table 3)

Fastener Density/ft²

Sarnatherm (a), Sarnatherm 25 PSI, ACFoam-III, ACFoam-IV

Minimum 2" thick 16 with 20 1:1 ft²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol

2170 VC adhesive applied to the substrate at 0.75 gal/sq. and to the roof cover at 0.5 gal/sq. or with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Minimum 3" wide side lap is sealed with a 1.25" wide heat weld.

Or

Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to only the substrate in two coats with a total application rate of 2.0 gal/sq. or with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol AD Feltback Membrane Adhesive or OM Feltback Membrane adhesive applied in 0.5" wide ribbons spaced 12" o.c. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.25" wide

heat weld.

Maximum Design

Pressure: -97.5 psf (See General Limitation #7)



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Deck Description: Min. 18-22ga., Type B, Grade 80 steel deck fastened to 0.25 in. thick structural supports

spaced 6 ft. o.c. with two Traxx/5 fasteners, with ¾ in. washers, at each rib spaced 6 in. o.c. in rows above each support 6 ft. o.c. and with side laps fastened with Traxx/1 fasteners spaced 24

in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(12): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Base Insulation Layer:</u>

<u>Insulation Fasteners</u>

(Table 3)

<u>Fastener Density/ft²</u>

Sarnatherm (a), Sarnatherm 25 PSI, ACFoam-II, ACFoam-III, ACFoam-IV

Minimum 2" thick 16 with 20 or 31 with 30 1:1 ft²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step

Membrane Adhesive roller applied at 0.75 gal/sq. to the insulation. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Minimum 3" wide side lap is sealed with a 1.25" wide heat weld.

Maximum Design

Pressure: -97.5 psf (See General Limitation #7)



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Deck Description: 18 ga., Type B, Grade 33 steel deck fastened to 0.25 in. thick structural supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with two Traxx 1

fasteners spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(13): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate

bonding tool.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer: | <u>Insulation Fasteners</u> | <u>Fastener Density/ft²</u> |
|------------------------|-----------------------------|--|
| | <u>(Table 3)</u> | |
| Sarnatherm, H-Shield | | |
| Minimum 1.5" thick | N/A | N/A |

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Top Insulation Layer (Optional): | Insulation Fasteners | Fastener Density/ft ² |
|---|-----------------------------|----------------------------------|
| | <u>(Table 3)</u> | |

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board
Minimum 0.25" thick
20 with 32 or 11
with 23

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Insulation layer shall be fastened through to the steel deck with the fastener and plate listed above. The Sarnafil S327, S327 Textured or S327 (10 ft) membrane shall be induction welded to the RhinoBond Insulation Plates with RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Side lap is sealed with minimum 3/4" wide heat weld.

| | Maximum Pressure | Fastener Spacing | Fastener Row Spacing |
|------------------------------|--|-------------------------|-----------------------------|
| Maximum Design Pressures: | -45 psf (See General Limitation #7) | 12 in. | 6 ft. |
| | -52.5 psf (See General Limitation #7) | 12 in. | 5 ft. |
| | -90 psf (See General Limitation #7) | 6 in. | 6 ft. |
| | -105 psf (See General Limitation #7) | 6 in. | 5 ft. |



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Deck Description: 18 ga., Type B, Grade 33 steel deck fastened to 0.25 in. thick structural supports spaced 6 ft.

o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with two Traxx 1

fasteners spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(14): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate

bonding tool.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer: Insulation Fasteners (Table 3) Fastener Density/ft²

Sarnatherm, H-Shield

Minimum 1.5" thick N/A N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer (Optional):

Insulation Fasteners
(Table 3)

Fastener Density/ft²

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board Minimum 0.25" thick 30 with 33 or 20 See Design Pressure with 32

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: <u>Insulation layer shall be fastened through to the steel deck</u> with the fastener and plate listed

above. The Sikaplan Fastened membrane shall be induction welded to the Sikaplan

RhinoBond Disc with Sikaplan Fastener #15 or Sarnadisc RhinoBond with Sarnafastener #15 using RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Side

lap is sealed with minimum 3/4" wide heat weld.



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| | Maximum Pressure | Fastener Spacing | Fastener Row Spacing |
|------------------------------|--|------------------|----------------------|
| Maximum Design Pressures: | -45 psf (See General Limitation #7) | 12 in. | 6 ft. |
| | -52.5 psf (See General Limitation #7) | 12 in. | 5 ft. |
| | -90 psf (See General Limitation #7) | 6 in. | 6 ft. |
| | -105 psf (See General Limitation #7) | 6 in. | 5 ft. |



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Deck Description: Steel (Existing Structural Insulated or Non-Insulated Standing or Lap Seam Metal Roof

Panel Assembly).

System Type C(15): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate

bonding tool.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer: To be placed between the | Insulation Fasteners | <u>Fastener Density/ft²</u> |
|--|----------------------|--|
| ribs or over panel of existing structural metal roof | <u>(Table 3)</u> | |
| <u>system</u> | | |
| Any approved Polyiso or EPS listed in Table 2 | | |
| Minimum 1.5" thick | N/A | N/A |

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Top Insulation Layer: | Insulation Fasteners | Fastener Density/ft ² |
|------------------------------|-----------------------------|----------------------------------|
| | <u>(Table 3)</u> | |

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board Minimum 0.25" thick 23 or 32 with 24 See Design Pressure

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Insulation layer shall be fastened through to the steel purlin with the fastener and plate listed above. The Sarnafil S327, S327 Textured or S327 (10 ft) membrane shall be induction welded to the RhinoBond Insulation Plates with RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Side lap is sealed with minimum ³/₄" wide heat weld.

| | Maximum Pressure | Fastener Spacing | Fastener Row Spacing |
|------------------------------|--|-------------------------|-----------------------------|
| Maximum Design Pressures: | -45 psf (See General Limitation #7) | 12 in. | 6 ft. |
| | -52.5 psf (See General Limitation #7) | 12 in. | 5 ft. |
| | -90 psf (See General Limitation #7) | 6 in. | 6 ft. |
| | -105 psf (See General Limitation #7) | 6 in. | 5 ft. |



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Deck Description: Steel (Existing Structural Insulated or Non-Insulated Standing or Lap Seam Metal Roof

Panel Assembly).

System Type C(16): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate

bonding tool.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer: To be placed between the | Insulation Fasteners | Fastener Density/ft ² |
|--|-----------------------------|----------------------------------|
| ribs or over panel of existing structural metal roof | (Table 3) | |
| system | | |
| Any approved Polyiso or EPS listed in Table 2 | | |
| Minimum 1.5" thick | N/A | N/A |

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer):

Insulation Fasteners
(Table 3)

Fastener Density/ft²

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board Minimum 0.25" thick 23 or 33 with 24 See Design Pressure

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: <u>Insulation layer shall be fastened through to the steel purlin</u> with the fastener and plate listed

above. The Sikaplan Fastened membrane shall be induction welded to the Sikaplan

RhinoBond Disc with Sikaplan Fastener #15 or Sarnadisc RhinoBond with Sarnafastener #15 using RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Side

lap is sealed with minimum 3/4" wide heat weld.

| | Maximum Pressure | Fastener Spacing | Fastener Row Spacing |
|------------------------------|--|-------------------------|-----------------------------|
| Maximum Design Pressures: | -45 psf (See General Limitation #7) | 12 in. | 6 ft. |
| | -52.5 psf (See General Limitation #7) | 12 in. | 5 ft. |
| | -90 psf (See General Limitation #7) | 6 in. | 6 ft. |
| | -105 psf (See General Limitation #7) | 6 in. | 5 ft. |



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Deck Description: 18-22 ga., Type B, Grade 33 steel deck fastened to 0.25 in. thick structural supports spaced 6

ft. o.c. with two Traxx 5 fasteners and 3/4" thick washers spaced 6 in. o.c. and with side laps fastened with one Traxx 1 fasteners spaced 12 in. o.c. Permiter securement spaced 12 in. o.c. along the 24 ft length and 6 in. o.c. along the 12 ft length using Traxx/5 fasteners and 3/4"

thick washers.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(17): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Base Insulation Layer:</u> <u>Insulation Fasteners</u> <u>Fastener Density/ft²</u>

(Table 3)

Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ACFoam-IV, H-Shield

Minimum: 1.5" thick N/A N/A

Top Insulation Layer:

Insulation Fasteners

Fastener Density/ft²

<u>(Table 3)</u>

DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board, Invinsa Roof

Board, H-Shield HD

Minimum 0.5" thick 15 with 16 1:1 ft²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sarnafil S327 Felt, G410 Felt, G410 Felt Textured adhered with Sarnacol AD Feltback

Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive applied in four rows of 0.5" wide ribbons spaced 12" o.c. or adhered with Sarnacol 2170 VC adhesive applied to the substrate in two costs with a total application rate of 2.0 gal/sq. The roof cover is

substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Minimum 3" wide side lap is sealed with a 1.25" wide heat weld.

Or

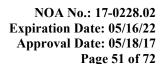
(*Not with SECUROCK coverboards*) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side

lap is sealed with a 1.25" wide heat weld.

Maximum Design

Pressure:

-82.5 psf. (See General Limitation #7)





Deck Description: Min. 18-22ga., Type B, Grade 80 steel deck fastened to 0.25 in. thick structural supports

spaced 6 ft. o.c. with two Traxx/5 fasteners, with ¾ in. washers, at each rib spaced 6 in. o.c. in rows above each support 6 ft. o.c. and with side laps fastened with Traxx/1 fasteners spaced 24

in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type C(18): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Fire Barrier (Optional):

Minimum 1/4" DensDeck, DensDeck Prime and SECUROCK Gypsum-Fiber Roof Board

One or more layers of any of the following insulations:

<u>Base Insulation Layer:</u> <u>Insulation Fasteners</u> <u>Fastener Density/ft²</u>

(Table 3)

Sarnatherm, H-Shield

Minimum 1.5" thick N/A N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer:

Insulation Fasteners
(Table 3)

Fastener Density/ft²

DensDeck Prime, SECUROCK Glass-Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, Invinsa Roof Board

Minimum 0.25" thick 16 with 20 1:1 ft²

Note: Top insulation layer shall also be adhered with Sarnacol OM Board Adhesive or OMG OlyBond 500 Adhesive applied in ¾-inch ribbons spaced 12-inch o.c. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: (*Not with SECUROCK coverboards*) Sarnafil G410, G410 Textured, S327, S327 Textured or

S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied to the substrate at 0.75 gal/sq and to the roof cover at 0.5 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.25"

wide heat weld.

Or



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 52 of 72 Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to only the substrate in two coats with a total application rate of 2.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.25" wide heat weld.

Maximum Design Pressure:

-127.5 psf (See General Limitation #7)



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Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-22 ga., A1008 SS Grade 80 or A653

Grade 80 steel deck is fastened to 0.25 in. thick structural supports, spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1 fasteners spaced

24 in. o.c. **Fastening* #1

Or

Min. 18-22 ga., Type B, Grade 80 steel deck is fastened to 0.25 in. thick structural supports, spaced 6' o.c. with Traxx/5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx/1 fasteners spaced 24 in. o.c.

*Fastening #2

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(1): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.

Optional): Illisulation layer

Fire Barrier Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County (Optional): approved insulation fasteners at not less than 2 fasteners for a board with no dimension

greater than 4' and not less than four fasteners for any board with any greater dimension than

4'.

One or more layers of any of the following insulations:

| Base Insulation Layer: | Insulation Fasteners | <u>Fastener</u> |
|---|----------------------|-------------------------|
| | <u>(Table 3)</u> | Density/ft ² |
| Any approved insulation listed in Table 2 | | |
| Maximum 1.0" thick | N/A | N/A |

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 54 of 72 **Membrane:** Sarnafil S327, S327 Textured or S327 (10 ft) attached to deck as specified below with

Sarnarail Polymer Batten Strips.

Fastening #1: (Not with S327 (10 ft)) Sarnafasteners-XP fasteners spaced 12" o.c. through batten strip

spaced maximum 73.25" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 18" and securing with two Sarnafastener XP screws spaced 12" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat

weld on the inside edge.

Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Fastening #2: (With S327 (10 ft)) Sarnafasteners-XP fasteners spaced 6" o.c. through batten strip spaced

maximum 144" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 12" and securing with two Sarnafastener XP fastenersspaced 6" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on

the inside edge.

Maximum Design Pressure -52.5 psf. (See General Limitation #7)

Maximum Design

Pressures: See Fastening Pattern. (See General Limitation #7)



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Deck Description: Min. 18-22 ga., Type B, Grade 80 steel deck is fastened to 0.25 in. thick structural supports,

spaced 6' o.c. with Traxx/5 fasteners spaced 6 in. o.c. and with side laps fastened with

Traxx/1 fasteners spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(2): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier

Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base

(**Optional**): insulation layer.

Fire Barrier (Optional):

Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than

4°.

One or more layers of any of the following insulations:

Base Insulation Layer:Insulation Fasteners
(Table 3)Fastener
Density/ft²Any approved insulation listed in Table 2N/AN/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan Fastened or Sikaplan Fastened Feltback attached to deck as specified below with

Sarnarail Polymer Batten Strips.

Fastening #1: Sikaplan Fastener #15 spaced 6" o.c. through batten strip spaced maximum 144" o.c. within

the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 12" and securing with two Sarnafastener XP or Sikaplan Fastener #15 spaced 6" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on the inside

edge.

Maximum Design

Pressures: -52.5 psf. (See General Limitation #7)



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Deck Description: Min. 18-22 ga., A1008 SS Grade 80 or A653 Grade 80 steel deck is fastened to 0.25 in. thick

structural supports, spaced 6' o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps

fastened with Traxx 1 fasteners spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(3): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier

Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base

(Optional): insulation layer.

Fire Barrier (Optional):

Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than

4'.

One or more layers of any of the following insulations:

Base Insulation Layer:Insulation FastenersFastener(Table 3)Density/ft²

Any approved insulation listed in Table 2:

Maximum 1.0" thick N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or S327 Textured attached to deck as specified below with Sarnarail Polymer

Batten Strips.

Fastening #1: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners spaced 18" o.c. through batten strip

spaced maximum 73.25" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 24" and securing with two Sarnafil MAXLoad, Sarnafastener MAXLoad screws spaced 18" o.c. Laps are sealed with at 1.5" wide heat weld on the

outside edge and 1.0" wide heat weld on the inside edge.

Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Maximum Design

Pressures: See Fastening Pattern. (See General Limitation #7)



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Deck Description: Min. 2500 psi concrete or concrete plank or min. 18 ga., Type B, Grade 80 steel deck is

fastened to 0.25 in. thick structural supports, spaced 6 ft. o.c. with Traxx 5 fasteners spaced

6 in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 30 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(4): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier Sari

Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base

(Optional): insulation layer.

Fire Barrier (Optional):

Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than

4°.

One or more layers of any of the following insulations:

Base Insulation Layer:

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Any approved insulation listed in Table 2: Maximum 1.0" thick

Maximum 1.0" thick N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327, S327 Textured or S327 (10 ft) attached to deck as specified below.

Fastening #1: Sarnafasteners-XP fasteners with Sarnadisc-XPN plates spaced 6" o.c. within 5.5" wide laps

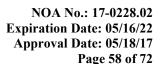
spaced 114.5" o.c. Laps are sealed with a 1.75" wide heat weld on outside edge of lap.

Maximum Design

Pressures:

-60.0 psf. (See General Limitation #7)







Single Ply, PVC **Membrane Type:** Deck Type 7I: Recover, Insulated

Deck Description: Min. 2500 psi concrete or concrete plank or min. 18 ga., Type B, Grade 80 steel deck is

fastened to 0.25 in. thick structural supports, spaced 6 ft. o.c. with Traxx 5 fasteners spaced

6 in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 30 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

Membrane attached over preliminary fastened insulation. System Type D(5):

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base Vapor Barrier

insulation layer. (Optional):

Fire Barrier Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County (Optional): approved insulation fasteners at not less than 2 fasteners for a board with no dimension

greater than 4' and not less than four fasteners for any board with any greater dimension than

4'.

One or more layers of any of the following insulations:

Insulation Fasteners Base Insulation Layer: Fastener (Table 3) Density/ft² Any approved insulation listed in Table 2:

Maximum 1.0" thick

N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Sikaplan Fastened or Sikaplan Fastened Feltback attached to deck as specified below. **Membrane:**

Sikaplan Fastener #15 with Sarnadisc-XPN plates spaced 6" o.c. within 5.5" wide laps Fastening #1:

spaced 114.5" o.c. Laps are sealed with a 1.75" wide heat weld on outside edge of lap.

Maximum Design

Pressures:

-60.0 psf. (See General Limitation #7)



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Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-20 ga., Type B, Grade 80 steel deck is

fastened to 0.25 in. thick structural supports, spaced 6 ft o.c. with Traxx/5 fasteners spaced 6

in. o.c. and with side laps fastened with Traxx/1 fasteners spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(6): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base

(**Optional**): insulation layer.

Fire Barrier Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County (**Optional**): approved insulation fasteners at not less than 2 fasteners for a board with no dimension

greater than 4' and not less than four fasteners for any board with any greater dimension than

4'.

One or more layers of any of the following insulations:

Base Insulation Layer:Insulation FastenersFastener(Table 3)Density/ft²

Any approved insulation listed in Table 2:

Maximum 1.0" thick N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327, S327 Textured or S327 (10 ft) attached to deck as specified below.

Fastening #1: (Steel or Concrete Deck Only; With S327 (10 ft)) Sarnafasteners-XP fasteners and Sarnadisc

XPN plates spaced 6" o.c. within 5.5" wide side laps spaced maximum 114.5" o.c. Laps are

sealed with a minimum 0.5" wide outside edge heat weld.

Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Fastening #2: (Steel Deck Only; With S327 (10 ft)) Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners

and Sarnadisc MAXLoad Plates spaced 6" o.c. within 7" wide side laps spaced maximum

113" o.c. Laps are sealed with a minimum 0.875" wide outside edge heat weld.

Maximum Design Pressure -60.0 psf (See General Limitation #7)

Maximum Design

Pressures:

See Fastening Pattern. (See General Limitation #7)



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Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-20 ga., Type B, Grade 80 steel deck is

fastened to 0.25 in. thick structural supports, spaced 6 ft o.c. with Traxx/5 fasteners spaced 6

in. o.c. and with side laps fastened with Traxx/1 fasteners spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(7): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base

(**Optional**): insulation layer.

Fire Barrier Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County (**Optional**): approved insulation fasteners at not less than 2 fasteners for a board with no dimension

greater than 4' and not less than four fasteners for any board with any greater dimension than

4'.

One or more layers of any of the following insulations:

Base Insulation Layer:Insulation FastenersFastener(Table 3)Density/ft²

Any approved insulation listed in Table 2:

Maximum 1.0" thick N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan Fastened or Sikaplan Fastened Feltback attached to deck as specified below.

Fastening #1: Sikaplan Fastener #15 fasteners and Sarnadisc XPN plates spaced 6" o.c. within 5.5" wide

side laps spaced maximum 114.5" o.c. Laps are sealed with a minimum 0.5" wide outside

edge heat weld.

Maximum Design

Pressures:

-45.0. (See General Limitation #7)



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Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-20 ga., Type B, Grade 80 steel deck is

fastened to 0.25 in. thick structural supports, spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6

in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 30 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(8): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier

Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base

(Optional):

insulation layer.

Fire Barrier (Optional):

Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension

greater than 4' and not less than four fasteners for any board with any greater dimension than

4'.

One or more layers of any of the following insulations:

Base Insulation Layer:

Insulation Fasteners
(Table 3)

Any approved insulation listed in Table 2:

Any approved insulation listed in Table 2:

Maximum 1.0" thick N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327, S327 Textured or S327 (10 ft) attached to deck as specified below.

Fastening #1: (Steel Deck Only) Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and 3/4" wide

Sarnarail Polymer Batten Strip spaced 12" o.c. within 5.5" wide side laps spaced maximum 114.5" o.c. Batten Strip is lapped 14" within lap to provide a minimum 2 screw securement in lap. Laps are sealed with a minimum 1.25" wide outside edge heat weld and minimum

0.75" wide inside edge heat weld.

Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Fastening #2: (Steel or Concrete Deck Only) Sarnafasteners-XP fasteners and 3/4" wide Sarnarail Polymer

Batten Strip spaced 6" o.c. within 5.5" wide side laps spaced maximum 114.5" o.c. Batten Strip is lapped 8" within lap to provide a minimum 2 screw securement in lap. Laps are sealed with a minimum 1.25" wide outside edge heat weld and minimum 0.75" wide inside

edge heat weld.

Maximum Design Pressure -60.0 psf. (See General Limitation #7)

Fastening #3: (Steel Deck Only) Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and 3/4" wide



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 62 of 72 Sarnarail Polymer Batten Strip spaced 6" o.c. within 5.5" wide side laps spaced maximum 114.5" o.c. Batten Strip is lapped 8" within lap to provide a minimum 2 screw securement in lap. Laps are sealed with a minimum 1.25" wide outside edge heat weld and minimum 0.75" wide inside edge heat weld.

Maximum Design Pressure -67.5 psf. (See General Limitation #7)

Maximum Design Pressures:

See Fastening Pattern. (See General Limitation #7)



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Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-20 ga., Type B, Grade 80 steel deck is

fastened to 0.25 in. thick structural supports, spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6

in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 30 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(9): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base

(**Optional**): insulation layer.

Fire Barrier Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County (**Optional**): approved insulation fasteners at not less than 2 fasteners for a board with no dimension

greater than 4' and not less than four fasteners for any board with any greater dimension than

4'.

One or more layers of any of the following insulations:

Base Insulation Layer:Insulation FastenersFastener(Table 3)Density/ft²

Any approved insulation listed in Table 2:

Maximum 1.0" thick N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan Fastened or Sikaplan Fastened Feltback attached to deck as specified below.

Fastening #1: Sikaplan Fastener #15 and ³/₄" wide Sarnarail Polymer Batten Strip spaced 6" o.c. within 5.5"

wide side laps spaced maximum 114.5" o.c. Batten Strip is lapped 8" within lap to provide a minimum 2 screw securement in lap. Laps are sealed with a minimum 1.25" wide outside

edge heat weld and minimum 0.75" wide inside edge heat weld.

Maximum Design

Pressures: -60.0 psf. (See General Limitation #7)



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Deck Description: Min.18 ga., Type B, Grade 80 steel deck is fastened to 0.25 in. thick structural supports,

spaced 6' o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx

1 fasteners spaced 30 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(10): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier

Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base

(Optional):

insulation layer.

Fire Barrier (Optional):

Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension

greater than 4' and not less than four fasteners for any board with any greater dimension than

4'.

One or more layers of any of the following insulations:

Base Insulation Layer:Insulation FastenersFastener(Table 3)Density/ft²

Any approved insulation listed in Table 2:

Maximum 1.0" thick N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 (10 ft), Sikaplan Fastened or Sikaplan Fastened Feltback attached to deck as

specified below.

Fastening #1: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and ³/₄" wide Sarnarail Polymer

Batten Strip spaced 6" o.c. within 5.5" wide side laps spaced maximum 114.5" o.c. Batten Strip is lapped 8" within lap to provide a minimum 2 screw securement in lap. Laps are sealed with a minimum 1.25" wide outside edge heat weld and minimum 0.75" wide inside

edge heat weld.

Maximum Design

Pressures: -75.0 psf (See General Limitation #7)



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Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-22 ga., Type B, Grade 80 steel deck

fastened to 0.25 in. thick structural supports, spaced 6' o.c. with Traxx/5 fasteners spaced 6

in. o.c. and with side laps fastened with Traxx/1 fasteners spaced 30 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(11): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier

Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base

(**Optional**): insulation layer.

Fire Barrier (Optional):

Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than

4'.

One or more layers of any of the following insulations:

Base Insulation Layer:Insulation FastenersFastener(Table 3)Density/ft²

Any approved insulation listed in Table 2:

Maximum 1.0" thick N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or S327 Textured attached to deck as specified below.

Fastening #1: Sarnafasteners-XP fasteners and Sarnarail Polymer Batten Strip spaced 12" o.c. within 5.5"

wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1" wide outside

heat weld and a minimum 5/8" wide inside heat weld.

Maximum Design Pressure -52.5 psf. (See General Limitation #7)

Fastening #2: Sarnafasteners-XP fasteners and Sarnadisc XPN plates spaced 12" o.c. within 5.5" wide side

laps spaced maximum 54" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.

Maximum Design Pressure -60.0 psf. (See General Limitation #7)



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Sarnafasteners-XP fasteners and Sarnadisc XPN plates spaced 6" o.c. within 5.5" wide side **Fastening #3:**

laps spaced maximum 54" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.

Maximum Design Pressure -90.0 psf. (See General Limitation #7)

Maximum Design

Pressures:

See Fastening Pattern. (See General Limitation #7)



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Deck Description: Min. 18-22 ga., Type B, Grade 80 steel deck fastened to 0.25 in. thick structural supports,

spaced 6' o.c. with Traxx/5 fasteners spaced 6 in. o.c. and with side laps fastened with

Traxx/1 fasteners spaced 30 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(12): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier

Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base

(**Optional**): insulation layer.

Fire Barrier (Optional):

Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension

greater than 4' and not less than four fasteners for any board with any greater dimension than

4'.

One or more layers of any of the following insulations:

Base Insulation Layer:Insulation Fasteners
(Table 3)Fastener
Density/ft²

Any approved insulation listed in Table 2:

Maximum 1.0" thick N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or S327 Textured attached to deck as specified below.

Fastening #1: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip

spaced 24" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a

minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.

Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Fastening #2: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad Plates

spaced 24" o.c. within 6.5" wide side laps spaced maximum 53" o.c. Laps are sealed with a

minimum 1.6" wide outside heat weld.

Maximum Design Pressure -45.0 psf. (See General Limitation #7)



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 68 of 72 **Fastening #3:** Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad Plates

spaced 12" o.c. within 7" wide side laps spaced maximum 113" o.c. Laps are sealed with a

minimum 1.5" wide outside heat weld.

Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Fastening #4: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip

spaced 18" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a

minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.

Maximum Design Pressure -52.5 psf. (See General Limitation #7)

Fastening #5: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad Plates

spaced 18" o.c. within 6.5" wide side laps spaced maximum 53" o.c. Laps are sealed with a

minimum 1.6" wide outside heat weld.

Maximum Design Pressure -52.5 psf. (See General Limitation #7)

Fastening #6: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad Plates

spaced 12" o.c. within 6.5" wide side laps spaced maximum 53" o.c. Laps are sealed with a

minimum 1.6" wide outside heat weld.

Maximum Design Pressure -60.0 psf. (See General Limitation #7)

Fastening #7: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip

spaced 12" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a

minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.

Maximum Design Pressure -67.5 psf. (See General Limitation #7)

Fastening #8: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad Plates

spaced 6" o.c. within 6.5" wide side laps spaced maximum 53" o.c. Laps are sealed with a

spaced 6 o.c. within 6.5 wide side taps spaced maximum 55 o.c. Laps are scaled with

minimum 1.6" wide outside heat weld.

Maximum Design Pressure -105.0 psf. (See General Limitation #7)

Fastening #9: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip

spaced 6" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a

minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.

Maximum Design Pressure -112.5 psf. (See General Limitation #7)

Maximum Design

Pressures:

See Fastening Pattern. (See General Limitation #7)



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Deck Description: Min. 22 ga., Type B, Grade 80 steel deck is fastened to 0.25 in. thick structural supports,

spaced 6' o.c. * The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 338 lbf when tested with fasteners, listed in this assembly, installed through to the deck in

accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress

Analysis Table.

System Type D(13): Membrane attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier (Optional):

Sarnavap-10 vapor barrier applied directly to the deck or over the base insulation layer.

Fire Barrier (Optional):

Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension

greater than 4' and not less than four fasteners for any board with any greater dimension than

4'.

One or more layers of any of the following insulations:

<u>Base Insulation Layer:</u>

<u>Insulation Fasteners</u>
(Table 3)

<u>Fastener Density/ft²</u>

Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-III, ACFoam-III

Minimum 1.5" thick or tapered N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or S327 Textured attached to deck as specified below.

Fastening #1: Six Sarnabars spaced 36" o.c. maximum, fastened with Sarnafasteners-XP spaced 6" o.c.

through the field of the membrane and covered with a 7" minimum width cover strip with

minimum 1.5" wide welds on each side.

Maximum Design

Pressure: -112.5 psf (See General Limitation #7)



NOA No.: 17-0228.02 Expiration Date: 05/16/22 Approval Date: 05/18/17 Page 70 of 72 **Membrane Type:** Single Ply, PVC

Deck Type 7: Recover, Non-Insulated

Deck Description: Concrete/Min 22 ga. 33 ksi. Steel

System Type F(1): Membrane adhered to sustrate.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: Sarnafil S327 Felt, G410 Felt, G410 Felt Textured adhered with Sarnacol AD Feltback

Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive applied in four rows of 0.5" wide ribbons spaced 12" o.c. and rolled with a weighted roller. Minimum 3" wide side

lap is sealed with a 1.5" wide heat weld.

Maximum Design

Pressure: -120.0 psf. (See General Limitation #9)



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RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

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 sidelap 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 and/or RAS 137. 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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