



MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION

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 Wood 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 renews and revises NOA No. 12-0313.12 and consists of pages 1 through 8.
 The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 13-0422.02
 Expiration Date: 08/02/16
 Approval Date: 07/18/13
 Page 1 of 8

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply
Material: PVC
Deck Type: Wood
Maximum Design Pressure: -45 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|----------------|-------------------|---------------------------|---|
| G410 Felt | Various | ASTM D 4434 | Fiberglass reinforced PVC roofing membrane with a non-woven felt backing. |
| G459 | Various | ASTM D 4434 | Fiberglass reinforced PVC Alloy asphalt compatible flashing 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. |
| Sarnatred | 3.25' x 32.8' | Proprietary | PVC walkway protection sheet. |
| SarnaWalkways | Various | Proprietary | PVC walkway protection sheet. |
| Sarnastack | Various | Proprietary | Prefabricated cone flashing. |
| Sarnaclad | Various | Proprietary | Heat weldable PVC/galvanized steel flashing |

APPROVED INSULATIONS:

TABLE 2

| <u>Product</u> | <u>Product Description</u> | <u>Manufacturer (with current NOA)</u> |
|--------------------------|--|---|
| Sarnatherm | Isocyanurate Insulation | Sika Sarnafil, A Division of Sika Corp. |
| Sarnatherm 25 PSI | Polyisocyanurate insulation board. | Sika Sarnafil, A Division of Sika Corp. |
| ACFoam Composite | Isocyanurate Insulation with perlite facer | Atlas Roofing Corp. |
| ACFoam-II, ACFoam-III | Isocyanurate Insulation | Atlas Roofing Corp. |
| ACFoam Supreme | Isocyanurate Insulation | Atlas Roofing Corp. |
| DensDeck, DensDeck Prime | Silicon treated gypsum | Georgia Pacific Gypsum LLC |
| ENRGY 3 | Isocyanurate Insulation | Johns Manville Corp. |
| ENRGY 3 Plus | Isocyanurate Insulation with wood fiberboard facer | Johns Manville Corp. |



| | | |
|------------------------------|-------------------------|--|
| ENRGY 3 25 PSI | Isocyanurate Insulation | Johns Manville Corp. |
| High Density Wood Fiberboard | Wood fiber insulation | Generic |
| Perlite Insulation Board | Perlite Insulation | Generic |
| Type X Gypsum | Gypsum Wallboard | Generic |
| H-Shield | Isocyanurate Insulation | Hunter Panels, LLC |
| ISO 95+ GL | Isocyanurate Insulation | Firestone Building Products Company, LLC |
| Multi-Max FA-3 | Isocyanurate Insulation | Rmax Operating, LLC |
| TherमारooF-3 | Isocyanurate Insulation | Rmax Operating, LLC |

APPROVED FASTENERS:

TABLE 3

| <u>Fastener Number</u> | <u>Product Name</u> | <u>Product Description</u> | <u>Dimensions</u> | <u>Manufacturer (With Current NOA)</u> |
|------------------------|---|---|-------------------|---|
| 1. | #12 Standard Roofgrip, #14 Roofgrip, #15 Roofgrip | Insulation and membrane fastener | Various | OMG, Inc. |
| 2. | Dekfast 12, Dekfast 14, Dekfast 15 HS | Insulation and membrane fastener | Various | SFS Intec, Inc. |
| 3. | Sarnafil Fasteners | Insulation and membrane fastener | Various | Sika Sarnafil, A Division of Sika Corp. |
| 4. | Sarnaplate | Insulation fastening plate. | 3” Round | Sika Sarnafil, A Division of Sika Corp. |
| 5. | Sarnabar | Galvanized or stainless steel membrane fastening bar. | Various | Sika Sarnafil, A Division of Sika Corp. |

EVIDENCE SUBMITTED:

| <u>Test Agency</u> | <u>Test Identifier</u> | <u>Description</u> | <u>Date</u> |
|-------------------------------------|------------------------|---------------------|-------------|
| Celotex Technical Center | MTS Job No. 258215 | TAS 114 | 09/09/97 |
| Factory Mutual Research Corporation | 0X3A3.AM | FM 4470 | 07/31/94 |
| | 0P6A6.AM | FM 4470 | 03/03/94 |
| | 2X2A5.AM | FM 4470 | 07/31/94 |
| | 0B9A0.AM | FM 4470 | 10/22/96 |
| | 1Z5A6.AM | FM 4470 | 07/18/97 |
| | 4B3A2.AM | FM 4470 | 06/19/97 |
| | 3016201 | FM 4470 | 01/28/03 |
| | 3021131 | FM 4470 | 07/07/05 |
| Underwriters Laboratories, Inc. | 3028309 | FM 4470 | 03/30/07 |
| | 3032532 | FM 4470 | 08/05/08 |
| | R8992 | UL 790 | 05/15/13 |
| | Trinity ERD | S44790.06.13 | ASTM D4434 |
| S42480.08.12 | | Physical Properties | 08/20/12 |



APPROVED ASSEMBLIES:

- Membrane Type:** PVC
- Deck Type II:** Wood, Insulated
- Deck Description:** 1 9/32" or greater plywood or wood plank
- System Type B:** Base layer of insulation mechanically fastened top layer 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 Retarder:** (Optional) An FM approved vapor retarder approved for use with hot asphalt may be applied to the deck or base layer.
- Fire Barrier:** (Optional) Minimum 5/8" Type X Gypsum , 1/4" DensDeck

One or more layers of any of the following insulations:

| Base Insulation Layer: | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|---|---|--|
| ACFoam-II, ACFoam Composite, H-Shield | | |
| Minimum 1.3" thick or tapered | 1, 2 or 3 | 1:2 ft² |
| Minimum 2" thick or tapered | 1, 2 or 3 | 1:4 ft² |
| Sarnatherm, Sarnatherm-25 PSI, ENRGY 3, ENRGY 3 Plus, ENRGY 3 PSI-25 | | |
| Minimum 1.4" thick or tapered | 1, 2 or 3 | 1:2.9 ft² |
| Minimum 2" thick or tapered | 1, 2 or 3 | 1:4 ft² |
| DensDeck, DensDeck Prime | | |
| Minimum 1/4" thick | 1, 2 or 3 | 1:1.2 ft² |
| Minimum 1/2" thick | 1, 2 or 3 | 1:1.7 ft² |
| Approved High Density Wood Fiberboard | | |
| Minimum 1" thick | 1, 2 or 3 | 1:2 ft² |
| Multi-Max FA-3, Therमारoof-3 | | |
| Minimum 1.25" thick or tapered | 1, 2 or 3 | 1:2 ft² |
| Minimum 2" thick or tapered | 1, 2 or 3 | 1:4 ft² |
| Approved Perlite | | |
| Minimum 3/4" thick | 1, 2 or 3 | 1:2 ft² |

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastener details).



| Top Insulation Layer: | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|--|---|--|
| ACFoam-II Minimum 1.3" thick or tapered | N/A | N/A |
| Sarnatherm, Sarnatherm-25 PSI, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, Minimum 1.4" thick or tapered | N/A | N/A |
| DensDeck, DensDeck Prime Minimum 1/4" thick | N/A | N/A |
| Multi-Max FA-3, Therमारoof-3 Minimum 1.25" thick or tapered | N/A | N/A |

Note: Top layer of insulation shall be bonded in a hot mopping of approved asphalt at an application rate of 25 lbs./sq. +/- 15%.

Membrane: G410 Felt adhered with Sarnacol 2170 adhesive applied at 1.25 gal/sq. as a primer to the insulation allowed to dry. Followed by a second coat at 1.0 gal/sq. to the insulation. The roof cover is then immediately placed into the adhesive and the top surface rolled with a weighted roller.

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



Membrane Type: PVC
Deck Type II: Wood, Insulated
Deck Description: 19/32" or greater plywood or wood plank
System Type C: All layers of insulation simultaneously fastened, 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 Retarder: (Optional) An FM approved vapor retarder approved for use with hot asphalt may be applied to the deck or base layer.

Fire Barrier: (Optional) Minimum 5/8" Type X Gypsum, 1/4" DensDeck.

One or more layers of any of the following insulations:

| Base Insulation Layer: | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|---|---|--|
| ACFoam-II, ACFoam-III, ACFoam Composite, ACFoam Supreme H-Shield Minimum 1.3" thick or tapered | N/A | N/A |
| Sarnatherm, Sarnatherm-25 PSI, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, ISO 95+ GL Minimum 1.4" thick or tapered | N/A | N/A |
| DensDeck, DensDeck Prime Minimum: 1/4" Thick | N/A | N/A |
| Multi-Max FA-3, Therमारoof-3 Minimum: 1.25" Thick or tapered | N/A | N/A |
| Approved High Density Wood Fiberboard Minimum: 1" Thick | N/A | N/A |
| Approved Perlite Minimum: 3/4" 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 per board shall be increased maintaining the same fastener density (See Roofing Application RAS 117 for fastener details).

| Top Insulation Layer: | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|---|---|--|
| ACFoam-II Minimum 1.3" thick or tapered | 1, 2 or 3 | 1:2 ft ² |
| Minimum 2" thick or tapered | 1, 2 or 3 | 1:4 ft ² |
| Sarnatherm, Sarnatherm 25 PSI, ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, ISO 95+ GL Minimum 1.4" thick or tapered | 1, 2 or 3 | 1:2.9 ft ² |
| Minimum 2" thick or tapered | 1, 2 or 3 | 1:4 ft ² |



Top Insulation Layer: (Continued)

**Insulation Fasteners
(Table 3)**

**Fastener
Density/ft²**

DensDeck, DensDeck Prime

Minimum: 1/4" Thick

1, 2 or 3

1:1.2 ft²

Minimum: 1/2" Thick

1, 2 or 3

1:1.7 ft²

Approved High Density Wood Fiberboard

Minimum: 1" Thick or tapered

1, 2 or 3

1:2 ft²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application RAS 117 for fastener details).

Membrane:

G410 Felt adhered with Sarnacol 2170 adhesive applied at 1.25 gal/sq. as a primer to the insulation allowed to dry. Followed by a second coat at 1.0 gal/sq. to the insulation. The roof cover is then immediately placed into the adhesive and the top surface rolled with a weighted roller.

Maximum Design

Pressure:

-45 psf. (See General Limitation #9)



GENERAL LIMITATIONS:

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

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

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered 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 to 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 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

