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)

SOPREMA, Inc.
310 Quadral Drive
Wadsworth, OH 44281

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: SENTINEL® PVC over Wood Decks

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

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

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

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 9.
The submitted documentation was reviewed by Jorge L. Acebo.

MIAMI-DADE COUNTY APPROVED

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	PVC
Deck Type:	Wood
Maximum Design Pressure:	-90 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
SENTINEL® P150 HFB	.060" thick, fabricated in rolls, various widths and lengths	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
SENTINEL® P200 HFB	.080" thick, fabricated in rolls, various widths and lengths	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
SENTINEL® P150	.060” thick fabricated in rolls, various widths and lengths	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.
SENTINEL® P200	.080” thick fabricated in rolls, various widths and lengths	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.
SENTINEL® G150	.060” thick fabricated in rolls, various widths and lengths	ASTM D4434	PVC polymer blend fiberglass reinforced roofing membrane.
SENTINEL® G200	.080” thick fabricated in rolls, various widths and lengths	ASTM D4434	PVC polymer blend fiberglass reinforced roofing membrane.
SENTINEL® PVC Pipe Flashing	Various	ASTM D4434	PVC fiberglass reinforced flashing for penetrations
SENTINEL® PVC Boot Flashing Split	Various	ASTM D4434	PVC fiberglass reinforced pipe flashing
SENTINEL® PVC Boot Flashing Closed	Various	ASTM D4434	PVC fiberglass reinforced pipe flashing
SENTINEL® T-Joint Patch	Various	ASTM D4434	PVC fiberglass reinforced membrane patches
SENTINEL® PVC Prefabricated Corners (Inside & Outside)	Various	ASTM D4434	PVC fiberglass reinforced flashing for inside and outside corners

APPROVED INSULATIONS: TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam-II, Tapered ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corp.
ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corp.
SOPRA-ISO™ s, SOPRA-ISO™ s Tapered	Polyisocyanurate foam insulation	SOPREMA, Inc.
SOPRA-ISO™+ s, SOPRA-ISO™+ s Tapered	Polyisocyanurate foam insulation	SOPREMA, Inc.
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia Pacific Gypsum, LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, a div. of Carlisle Const. Materials
H-Shield CG	Polyisocyanurate foam insulation	Hunter Panels, a div. of Carlisle Const. Materials
H-Shield HD	Coated glass facer insulation board	Hunter Panels, a div. of Carlisle Const. Materials
SOPRA-ISO™ r, SOPRA-ISO™ r Tapered	Polyisocyanurate foam insulation	SOPREMA, Inc.
SOPRA-ISO™+ r, SOPRA-ISO™+ r Tapered	Polyisocyanurate foam core laminated to a coated fiberglass facer.	SOPREMA, Inc.
EnergyGuard Polyiso Insulation, EnergyGuard Tapered Polyiso Insulation	Polyiso insulation with fiberglass reinforced organic facers, Flat and Tapered	GAF
EnergyGuard Ultra Polyiso Insulation, EnergyGuard Ultra Tapered Polyiso Insulation	Polyiso insulation with coated fiberglass facers, Flat and Tapered	GAF
EnergyGuard HD Polyiso Insulation	High density polyiso insulation (min 80 psi) with coated fiberglass facers, flat	GAF
Thermaroof Composite-3	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation
SOPRA-ISO™ x, SOPRA-ISO™ Tapered x	Polyisocyanurate foam insulation	SOPREMA, Inc.
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation
Tapered Thermaroof-3	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation
Ultra-Max	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation
Tapered Ultra-Max	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation
SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced insulation board	USG Corporation
DEXcell FA Glass Mat Roof Board	Fire barrier and thermal barrier	National Gypsum Company a dba of New NGC, Inc.

APPROVED INSULATIONS: TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
DEXcell Cement Roof Board	Fire barrier and thermal barrier	National Gypsum Company a dba of New NGC, Inc.
R-TECH Fan Fold	Polyisocyanurate foam insulation	Insulfoam, a div. of Carlisle Const. Mat., LLC.
Cellofoam Type IX EPS	Expanded Polystyrene Type IX	Cellofoam North America, Inc.
Cellofoam FR Composite	Expanded Polystyrene Type IX	Cellofoam North America, Inc.

APPROVED FASTENERS: TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	SOPREMA® #15 HD Fastener	Roofing and insulation fasteners	Various Lengths	Altenloh, Brinck & Co. U.S., Inc
2.	Trufast #15 EHD Fasteners	Roofing and insulation fasteners	Various Lengths	Altenloh, Brinck & Co. U.S., Inc.
3.	RhinoBond Insulation Plate	Round, coated galvalume plate (Gold and Black)	3” round	OMG, Inc..
4.	Trufast 3” Metal Insulation Plate	Round insulation plate	3” round	Altenloh, Brinck & Co. U.S., Inc.
5.	SOPREMA® 3” Metal Insulation Plate	Round insulation plate	3” round	Altenloh, Brinck & Co. U.S., Inc
6.	SENTINEL® 3” Metal Plate	Round insulation plate	3” round	Tip-Top Screw Manufacturing, Inc.
7.	SOPREMA® #14 MP Fastener	Insulation fastener for steel, wood and concrete	Various	Altenloh, Brinck & Co. U.S., Inc
8.	SOPREMA® #14 Fasteners	Roofing and insulation fasteners	Various	SFS Intec, Inc.
9.	SENTINEL® Poly-Plates	Plastic Stress Plate	2” round	Oscoda Plastics Inc.
10.	SOPREMA® 2.4” seam Plate	Membrane seam plate	2.4”	Altenloh, Brinck & Co. U.S., Inc.
11.	Trufast 2.4” Scoop Seam Plate	Membrane seam plate	2.4”	Altenloh, Brinck & Co. U.S., Inc
12.	SOPREMA® #15 Fastener	Roofing and insulation fasteners	Various Lengths	SFS Intec, Inc.
13.	SENTINEL® H2O Bonding Adhesive	Polymeric waterborne membrane adhesive.	5 gal. pail	ITW TACC, a Division of Illinois Tool Works, Inc.
14.	SENTINEL® S Bonding Adhesive	Low VOC solvent-based membrane adhesive.	5 gal. pail	ITW TACC, a Division of Illinois Tool Works, Inc.
15.	ICP Adhesives CR-20	Two-component membrane adhesive	35-40 lb. Cylinders	ICP Adhesives and Sealants, Inc.

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
PRI Construction Materials Technologies LLC	SOP-082-02-01	ASTM D1761/D1876 TAS 117-B	12-16-16
	SOP-084-02-01.1	ASTM D4434	08-23-16
	SOP-084-02-02	ASTM D4434	08-23-16
	SOP-091-02-01	TAS 114-J	06-21-16
	SOP-101-02-01	TAS 114-J/FM 4474 D	08-10-16
	NGC-034-02-01	TAS 114-J	03-25-16
	NGC-035-02-01	TAS 114-J	05-19-16
SFS Intec, Inc.	SC10010.02.16	TAS 114-J	02-29-16
Trinity|ERD	D42320.08.12	TAS 114/FM 4470	08-31-12
	D43030.01.13-R1	TAS 114-J/TAS 117-A	10-02-13
FM Approvals	3054028	FM 4470	05-25-16
	3051109	FM 4470	05-11-15
	3057888	FM 4470	01-16-17

Membrane Type: Single Ply, PVC

Deck Type 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank secured with 0.113" x 2⅜" ring shank nails spaced 6" o.c. at supports with a maximum 24" o.c. spacing.

System Type C(1): All layers of insulation simultaneously attached; 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) FR-10 or FR-50, VersaShield Solo, ¼" DensDeck, ¼" SECUROCK Gypsum-Fiber Roof Board or ¼" DEXcell FA Glass Mat Roof Board loose laid

One or more layers of any of the following insulations.

Base Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density**
ACFoam-II, Tapered ACFoam-II, ACFoam-III, SOPRA-ISO s, SOPRA-ISO s Tapered, SOPRA-ISO+ s, SOPRA-ISO+ s Tapered, SOPRA-ISO r, SOPRA-ISO r Tapered, SOPRA-ISO+ r, SOPRA-ISO+ r Tapered, H-Shield, H-Shield CG, EnergyGuard Polyiso Insulation, EnergyGuard Tapered Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard Ultra Tapered Polyiso Insulation, Thermaroof Composite-3, SOPRA-ISO x, SOPRA-ISO Tapered x, SOPRA-ISO + Tapered x, SOPRA-ISO + x, Multi-Max FA-3, Tapered Thermaroof-3, Ultra-Max, Tapered Ultra-Max		
Minimum ½" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, DensDeck Prime		
Minimum ¼" thick	**1 or 2 with 6**	**See Below**
DEXcell Cement Roof Board		
Minimum 7/16" thick	**1 or 2 with 6, 10, 11, 4, 5**	**See Below**

Note: Insulation shall be mechanically attached with fasteners and density described above. 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 fastening details.

Membrane: SENTINEL P150 HFB or SENTINEL P200 HFB membrane fully adhered with SENTINEL H2O Bonding Adhesive applied at rate of 1.0 gal./sq. to the substrate or adhered with ICP Adhesives CR-20 applied in a splatter pattern at a rate of 3.75 lbs/100 ft^2. Side laps shall be a minimum 3" wide and are sealed with a minimum 1.5" wide heat weld.
Or
SENTINEL P150, SENTINEL P200, SENTINEL G150, or SENTINEL G200 membrane fully adhered with SENTINEL S Bonding Adhesive applied at a rate of 1.6 gal./sq. applied equally to both the substrate and the membrane or adhered with SENTINEL H2O Bonding Adhesive applied at rate of 1.0 gal./sq. to the substrate. The minimum 3" side and end laps are sealed with a minimum 1.5" heat weld.

Maximum Design Pressure: -75 psf. with 1:1.78 ft^2 fastener density (See General Limitation #7)
-60 psf. with 1:2 ft^2 fastener density (See General Limitation #7)

Membrane Type:	Single Ply, PVC
Deck Type 2I:	Wood, Insulated
Deck Description:	$^{19}/_{32}$" or greater plywood or wood plank secured with 0.113" x 2⅜" ring shank nails spaced 6" o.c. at supports with a maximum 24" o.c. spacing.
System Type C(2):	All layers of insulation simultaneously mechanically fastened; membrane induction welded.

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)	FR-10 or FR-50, VersaShield Solo, ¼" DensDeck, ¼" SECUROCK Gypsum-Fiber Roof Board or ¼" DEXcell FA Glass Mat Roof Board loose laid

Base Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, ACFoam-III, SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, H-Shield, SOPRA-ISO x, SOPRA-ISO + x, Multi-Max FA-3, Tapered Thermaroof-3, Ultra-Max, Tapered Ultra-Max		
Minimum ½" thick	**N/A**	**N/A**
Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
H-Shield, H-Shield CG, SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO + r, ACFoam II		
Minimum 1.5" thick	**1 or 2 with 3**	**See Below**
DensDeck Prime		
Minimum ¼" thick	**1 or 2 with 3**	**See Below**
SECUROCK Gypsum-Fiber Roof Board		
Minimum ½" thick	**1 or 2 with 3**	**See Below**

Note: Base insulation layer shall be simultaneously attached with the top insulation layer with the fasteners specified above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same density. See Roofing Application Standard RAS 117 for insulation fastening details.

Membrane:	SENTINEL P150 or SENTINEL P200 induction welded to each RhinoBond Insulation Plate. The minimum 3" wide roof cover side laps are sealed with a minimum 1" wide heat weld on the outside edge of the lap.
Maximum Design Pressure:	-60 psf. with 1:2.67 ft^2 fastener density (See General Limitation #7) -90 psf. with 1:2 ft^2 fastener density (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank secured with 0.113" x 2⅜" ring shank nails spaced 6" o.c. at supports with a maximum 24" o.c. spacing.

System Type D: All layers of insulation simultaneously attached with membrane.

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) FR-10 or FR-50, VersaShield Solo, ¼" DensDeck, ¼" SECUROCK Gypsum-Fiber Roof Board or ¼" DEXcell FA Glass Mat Roof Board loose laid

One or more layers of any of the following insulations.

Base Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density**
ACFoam-II, ACFoam-III, SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, H-Shield, SOPRA-ISO x, SOPRA-ISO + x, Multi-Max FA-3, Tapered Thermaroof-3, Ultra-Max, Tapered Ultra-Max		
Minimum ½" thick	**N/A**	**N/A**
Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Cellofoam Type IX EPS, H-Shield, SOPRA-ISO r, H-Shield CG, SOPRA-ISO+ r, R-TECH Fan Fold, H-Shield HD, EnergyGuard HD Polyiso Insulation, SOPRA-ISO+ s		
Minimum ½" thick	**1, 2, 8, or 12 with 6**	**1:6.4 ft²**
DensDeck Prime, SECUROCK Gypsum Fiber Roof Board		
Minimum ¼" thick	**1, 2, 8, or 12 with 6**	**1:6.4 ft²**
Cellofoam FR Composite, ACFoam-II, SOPRA-ISO s		
Minimum 1" thick	**1, 2, 8, or 12 with 6**	**1:6.4 ft²**

Note: Insulation shall be preliminarily secured with fasteners and density described above. 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 fastening details.

Membrane: The SENTINEL P150 or P200 membrane shall be mechanically attached with Trufast #15 EHD Fasteners or SOPREMA #15 HD Fasteners and SENTINEL Poly-Plates fastened as described below:

Option #1: Fasteners and Plates fastened in-lap at 6" o.c. in rows spaced 114" o.c. The center of plate is installed 2" from tab edge. Side laps shall be a minimum 6" wide and are sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure: -45 psf. (See General Limitation #7)

Option #2: fastened in-lap at 6" o.c. in rows spaced 54" o.c. The center of plate is installed 1.25" from tab edge. Side laps shall be a minimum 6" wide and are sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure: -67.5 psf. (See General Limitation #7)

Maximum Design Pressure: See Membrane Above.

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