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 Lightweight Concrete Decks

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

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

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

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

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

This NOA consists of pages 1 through 16.
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:	Lightweight Concrete
Maximum Design Pressure:	-502.5 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 flashing

Product	Dimensions	Test Specification	Product Description
SOPRALENE® 180 Sanded	39" x 33'(1 sq.) 39" x 26' (3/4 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
SOPRALENE® 180 Sanded 2.2	39" x 33'(1 sq.)	ASTM 6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt or cold adhesive.
SOPRALENE® 250 Sanded	39" x 33' (1 sq.) 39" x 26' (3/4 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
SOPRALENE® 180 SP 3.0	39" x 33'(1 sq.)	ASTM D6164	Non-woven polyster reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top.
SOPRALENE® 180 SP 3.5	39" x 33'(1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
SOPRALENE® 250 SP	39" x 33'(1 sq.)	ASTM 6164	Non-woven polyester reinforced modified bitumen membrane with plastic burn-off film on the bottom and sanded on the top.
ELASTOPHENE® SP 2.2	39" x 49' (1.5 sq.)	ASTM 6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
ELASTOPHENE® SP 3.0	39" x 49' (1 sq.)	ASTM 6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
COLPLY™ EF Adhesive	5 gallon pail	Proprietary	Solvent free, polymeric adhesive.
DUOTACK 365	Part A and Part B various	Proprietary	Low rise, two part polyurethane adhesive
DUOTACK SPF	Part A and Part B various	Proprietary	Low pressure, two-component spray polyurethane foam adhesive
SOPRA G™	39" x 180' (3.5 sq.)	ASTM D4601	Fiberglass reinforced oxidized asphalt base sheet for bonding or mechanically attaching to substrate. For use as a base/ply sheet only.

APPROVED INSULATIONS: TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam-II Tapered ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corp.
SOPRA-ISO™ s SOPRA-ISO™ s Tapered	Polyisocyanurate foam insulation	SOPREMA, Inc.
H-Shield H-Shield Tapered	Insulation board	Hunter Panels, a div. of Carlisle Const. Materials
SOPRA-ISO™ r SOPRA-ISO™ r Tapered	Insulation board	SOPREMA, Inc.
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
SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced insulation board	USG Corporation
DensDeck Prime	Silicon treated gypsum	Georgia-Pacific Gypsum LLC
DEXcell FA Glass Mat Roof Board	Coated Gypsum Insulation Board	National Gypsum Company a dba of New NGC, Inc.
Sopraboard	asphaltic roofing substrate board	SOPREMA, Inc.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Trufast VERSA-FAST Fasteners	Carbon steel screw with #2 phillips drive, modified truss head for use in lightweight insulating concrete decks and various poured gypsum decks. TruKote epoxy coating.	0.250" thread dia. x 4-1/4" max. length	Altenloh, Brinck & Co. U.S., Inc.
2.	Trufast VERSA-FAST Metal Plate	Galvalume steel stress plate for use with Trufast VERSA-FAST Fasteners.	3" Round with reinforcing ribs	Altenloh, Brinck & Co. U.S., Inc.
3.	ICP Adhesives CR-20	Two-component membrane adhesive.	40 lb. Cylinder A 35 lb. Cylinder B	ICP Adhesives and Sealants, Inc.
4.	SENTINEL® H2O Bonding Adhesive	Polymeric waterborne membrane adhesive.	5 gal. pail	ITW TACC, a Division of Illinois Tool Works, Inc.
5.	SENTINEL® S Bonding Adhesive	Low VOC solvent-based membrane adhesive.	5 gal. pail	ITW TACC, a Division of Illinois Tool Works, Inc.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
FM Approvals	3023749	4470	09/28/06
	3057888	4470	01/16/17
	3025185	4470	04/12/07
Atlantic & Caribbean Roof Consulting, LLC	ACRC 15-032	TAS 114 D	12/15/15
	ACRC 15-036	TAS 114 D	12/17/15
	ACRC 17-009	TAS 114 D	02/28/17
PRI Construction Materials Technologies LLC	SOP-082-02-01	ASTM D1761/D1876 TAS 117-B	12/16/16
	SOP-074-02-01	TAS 114 D	03/28/16
	SOP-084-02-01.1	ASTM D4434	08/23/16
	SOP-084-02-02	ASTM D4434	08/23/16
	SOP-100-02-01	TAS 114-J	08/10/16
Trinity/ERD	SOP-SC14560.09.17-1	TAS 114 D	09/01/17
	SOP-SC16600.12.17-3	TAS 114	01/19/18

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

Engineer/Agency	Identifier	Assemblies	Date
Zachary R. Priest, P.E.	Signed/Sealed Calculations	F(4), F(5)	8/10/16

Membrane Type:	Single Ply, PVC
Deck Type 4:	Lightweight Concrete Decks, Insulated
Deck Description:	Minimum 360 psi aggregate lighweight concrete is cast over concrete deck. Minimum 1/8" to ¼" slurry coat is followed with min. 2" thick EPS holey board and a 1" thick top coat is applied. *Lightweight Concrete should record a minimum Characteristic Resistance Force (MCRF) of 278 lbf. When tested with Trufast VERSA-FAST Fasteners in accordance with TAS 105
System Type B:	Base layer of insulation mechanically fastened, top layer adhered with approved adhesive, membrane fully adhered.
Deck:	Minimum 2500 psi structual concrete

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: Sopra-G, loose laid

One or more layers of any of the following insulations

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, SOPRA-ISO s, H-Shield, SOPRA-ISO r, SOPRA-ISO x, Multi-Max FA-3		
Minimum 2" thick	**1 with 2**	**1:1.78 ft^2**

Note: Base insulation layer shall be fastened 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 attachment details.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
H-Shield, SOPRA-ISO r, ACFoam II, SOPRA-ISO s, SOPRA-ISO x, Multi-Max FA-3		
Minimum 1" thick	**N/A**	**N/A**
SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime, DEXcell FA Glass Mat Roof Board		
Minimum ¼" thick	**N/A**	**N/A**
Sopraboard		
Minimum 1/8" thick	**N/A**	**N/A**

Note: Top insulation shall be adhered to previous insulation with DUOTACK 365 or DUOTACK SPF insulation adhesive applied in ½" to ¾" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane:	The SENTINEL P150 HFB or P200 HFB membrane fully adhered with SENTINEL H2O Bonding Adhesive at a rate of 140-180 ft^2/gal. (wet lay), ICP Adhesive CR-20, spatter-applied at 3.75 lbs./sq. or DUOTACK SPF (not to Multi-Max or H-shield) spatter applied at 2.47 to 3.70 lbs./sq. Or SENTINEL G150, SENTINEL G200, SENTINEL P150 or SENTINEL P200 applied in SENTINEL H2O Bonding Adhesive at a rate of 140-180 ft^2/gal. (wet lay) or SENTINEL S Bonding Adhesive at 60 ft^2/gal. combined rate.
Maximum Design Pressure:	-52.5 psf. (See General Limitation #7)

Membrane Type:	Single Ply, PVC
Deck Type 4:	Lightweight Concrete Decks, Non-Insulated
Deck Description:	Minimum 306 psi Celcore MF Cellular Concrete is cast over optional vapor barrier torched adhered to ASTM D 41 primed concrete deck. Minimum ¼" slurry coat is followed with min. 1" thick EPS board and a 2" thick top coat is applied. Curing compound is applied after seeting of top coat at 300 ft^2/gal.
System Type F(1):	Membrane adhered to LWC deck.
Vapor Barrier (Optional):	One (1) ply of ELASTOPHENE SP 2.2, ELASTOPHENE SP 3.0, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, SOPRALENE 250 SP torched adhered to ASTM D 41 primed deck.
Deck:	Minimum 2500 psi structual concrete

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:	The SENTINEL P150 HFB or P200 HFB membrane fully adhered with ICP Adhesives CR-20 applied in "splatter pattern" at a rate of 6 lbs./100 ft^2. Side laps will be a minimum 3" wide and shall be sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure:	-90 psf. (See General Limitation #9)

Membrane Type:	Single Ply, PVC
Deck Type 4:	Lightweight Concrete Decks, Non-Insulated
Deck Description:	Minimum 353 psi Cellular Lightweight Insulating Concrete is cast over optional vapor barrier torched adhered to primed concrete deck. *Lightweight Concrete should record a minimum Characteristic Resistance Force (MCRF) of 101 lbf. When tested with OMG 1.7-inch Base Sheet Fasteners in accordance with TAS 105
System Type F(2):	Membrane adhered to LWC deck.
Vapor Barrier: (Optional)	ELASTOPHENE SP 2.2 torched adhered to Elastocol 500 or ASTM D 41 primed deck.
Deck:	Minimum 2500 psi structual concrete

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.

Base Sheet:	SOPRALENE 180 Sanded 2.2 adhered in COLPLY EF Adhesive applied in ½" wide ribbons spaced a maximum 12" o.c. The minimum 3" side and end laps are sealed with a minimum 1.5" heat weld.
Membrane:	SENTINEL P150 HFB or SENTINEL P200 HFB adhered in CR-20 applied in ½" wide ribbons spaced a maximum 12" o.c. The minimum 3" side and end laps are sealed with a minimum 1.5" heat weld.
Maximum Design Pressure:	-130 psf. (See General Limitation #9)

Membrane Type: Single Ply, PVC

Deck Type 4: Lightweight Concrete Decks, Non-Insulated

Deck Description: Minimum 370 psi Celcore MF Cellular Concrete is cast over steel deck. Minimum 1/8" slurry coat is followed with min. 1" thick EPS board and a 2" thick top coat is applied. Curing compound is applied after setting of top coat at 300 ft^2/gal.

System Type F(3): Membrane adhered to LWC deck.

Deck: 18-22 ga. Minimum Grade 33 steel deck

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.

Base Sheet: SOPRALENE 180 Sanded 2.2 adhered in COLPLY EF Adhesive applied in ½" wide ribbons spaced a maximum 12" o.c. The minimum 3" side and end laps are sealed with a minimum 1.5" heat weld.

Membrane: SENTINEL P150 HFB or SENTINEL P200 HFB adhered in CR-20 applied in ½" wide ribbons spaced a maximum 12" o.c. The minimum 3" side and end laps are sealed with a minimum 1.5" heat weld.

Maximum Design Pressure: -162.5 psf. (See General Limitation #9)

Membrane Type:	Single Ply, PVC
Deck Type 4:	Lightweight Concrete Decks, Non-Insulated
Deck Description:	Minimum 342 psi Celcore MF Cellular Concrete is cast over steel deck that has been treated with Celcore S-1broomed applied in a continous film. Minimum ¼" slurry coat is followed with min. 1" thick EPS board and a 2" thick top coat is applied. Curing compound is applied after seeting of top coat at 300 ft^2/gal.
System Type F(4):	Membrane adhered to LWC deck.
Deck:	22 ga, type B, Grade 33, vented steel deck attached to supports at 6 ft spans using 5/8" puddle welds (each flute). Side laps attached with #¼ -14 x 7/8" HWH SD fasteners with ½" washers spaced 18" o.c. **This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

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:	The SENTINEL P150 HFB or P200 HFB membrane fully adhered with ICP Adhesives CR-20 applied in "splatter pattern" at a rate of 6 lbs./100 ft^2. Side laps will be a minimum 3" wide and shall be sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure:	-82.5 psf. (See General Limitation #9)

Membrane Type:	Single Ply, PVC
Deck Type 4:	Lightweight Concrete Decks, Non-Insulated
Deck Description:	Minimum 391 psi Celcore MF Cellular Concrete is cast over steel deck that has been treated with Celcore S-1 broomed applied in a continous film. Minimum ¼" slurry coat is followed with min. 1" thick EPS board and a 2" thick top coat is applied. Curing compound is applied after seeting of top coat at 300 ft^2/gal.
System Type F(5):	Membrane adhered to LWC deck.
Deck:	22 ga, type B, Grade 33, vented steel deck attached to supports at 5 ft spans using 5/8" puddle welds (each flute). Side laps attached with #¼ -14 x 7/8" HWH SD fasteners with ½" washers spaced 18" o.c. **This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

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:	The SENTINEL P150 HFB or P200 HFB membrane fully adhered with ICP Adhesives CR-20 applied in "splatter pattern" at a rate of 6 lbs./100 ft^2. Side laps will be a minimum 3" wide and shall be sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure:	-90 psf. (See General Limitation #9)

Membrane Type:	Single Ply, PVC
Deck Type 4:	Lightweight Concrete Decks, Non-Insulated
Deck Description:	Minimum 2” thick, 158 psi Cellular Lightweight Insulating Concrete is cast over concrete deck. *Lightweight Concrete should record a minimum Characteristic Resistance Force (MCRF) of 49 lbf. When tested with OMG 1.7-inch Base Sheet Fasteners in accordance with TAS 105
System Type F(6):	Membrane adhered to LWC deck.
Deck:	Minimum 2500 psi structual concrete

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:	The SENTINEL P150 HFB or SENTINEL P200 HFB membrane fully adhered with ICP Adhesives CR-20 applied in “splatter pattern” at a rate of 8 lbs./100 ft^2. Side laps will be a minimum 3” wide and shall be sealed with a minimum 1.5” wide heat weld.
Maximum Design Pressure:	-502.5 psf. (See General Limitation #9)

Membrane Type:	Single Ply, PVC
Deck Type 4:	Lightweight Concrete Decks, Non-Insulated
Deck Description:	Minimum 310 psi cellular lightweight concrete cast in minimum 1/8" to 1/4" slurry coat, followed by minimum 2" EPS holey board, and minimum 2" thick top coat. Lightweight concrete should record a Minimum Characteristic Resistance Force (MCRF) of 104 lbf when tested with Trufast FM-90 Base Sheet Fasteners in accordance with TAS 105.
System Type F(7):	Membrane adhered to LWC deck.
Deck:	22 ga, type BV, Grade 40, vented steel deck

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:	The SENTINEL P150 HFB or P200 HFB membrane fully adhered with ICP Adhesives CR-20 applied in "splatter pattern" at a rate of 3.75 lbs./100 ft^2. Side laps will be a minimum 3" wide and shall be sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure:	-144 psf. (See General Limitation #9)

LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For Systems where specific lightweight insulating concrete si referenced consult current lightweight insulating concrete NOA for specific deck construction and limitations. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.

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