MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99
www.miamidade.gov/economy

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: SOPREMA Waterproofing Systems

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. 18-0717.02 and consists of pages 1 through 21.
The submitted documentation was reviewed by Jorge L. Acebo.

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Waterproofing Systems
Material: SBS
Deck Type: Concrete, Lightweight Concrete
Maximum Design Pressure: -375 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
COLVENT TG	39” x 49’ (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen membrane with 1” wide factory applied heat weldable strips on back side.
COLVENT 180 TG	39” x 33’ (1 sq.)	ASTM D6164	Non-woven polyester reinforced, modified bitumen membrane with 1” wide factory applied heat weldable strips on back side.
COLVENT Flam 180 TG	39” x 33’ (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a burn-off film underside and a plastic film surface. Applied by heat welding.
ELASTOPHENE Sanded 2.2	39" x 49' (1½ sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
COLPHENE Sanded	39" x 49' (1½ sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
ELASTOPHENE Sanded 3.0	39" x 33' (1sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripped.
ELASTOPHENE PS 2.2	39" x 49' (1½ sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film for heat weld bonding to the top side. Applied in hot asphalt, cold adhesive or ribbon stripping.
ELASTOPHENE SP 2.2	39" x 49' (1½ sq.)	ASTM D6163	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).
COLPHENE SP 2.2	39" x 49' (1½ sq.)	ASTM D6163	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).

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
ELASTOPHENE SP 3.0	39” x 33’ (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding.
COLPHENE SP 3.0	39” x 33’ (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding.
ELASTOPHENE Flam 2.2	39" x 49' (1½ sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
SOPRALENE 180 SANDED 2.2	39" x 49' (1½ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
COLPHENE 180 Sanded	39" x 49' (1½ 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 PS 2.2	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the top and sanded on the bottom.
COLPHENE 180 PS	39" x 48' (1½ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
ELASTOPHENE LS FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
ELASTOPHENE FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
ELASTOPHENE Flam LS FR GR	39” x 33’ (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
ELASTOPHENE Flam FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
ELASTOPHENE Flam FR+ GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
SOPRALENE 180 Sanded	39" x 33' (1 sq.) 39" x 26' (¾ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
SOPRALENE 250 Sanded	39" x 33' (1 sq.) 39" x 26' (¾ 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 3.5	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).
COLPHENE 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 180 SP 3.0	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.
SOPRALENE 250 SP	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.
SOPRALENE Flam 180	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film, used as a base/ply. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
COLPHENE Flam 180	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film, used as a base/ply. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
SOPRALENE Flam 250	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
SOPRALENE 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
COLPHENE 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
SOPRALENE 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
COLPHENE 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
SOPRALENE Flam 180 GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
COLPHENE Flam 180 GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
SOPRALENE Flam 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
COLPHENE Flam 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
SOPRALENE Flam 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
COLPHENE Flam 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
SOPRALENE Flam 180 FR+ GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
SOPRALENE Flam 250 FR+ GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
SOPRALENE Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top.
COLPHENE Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top.
ANTIROCK	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded underside and surfaced with colored granules.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
SOPRALENE Flam Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a plastic burn-off film on the top.
MODIFIED SOPRA G	39" x 108' (3.5 sq.)	ASTM D4601	Fiberglass reinforced modified asphalt base sheet for bonding or mechanically attaching to substrate. **For use as a base/ply sheet only.**
SOPRABASE	39" x 99' (3 sq.)	ASTM D4601	Oxidized asphalt, polyester reinforced, sand-surface base sheet. **For use as a base/ply sheet only.**
SOPRABASE S	39" x 65' (2 sq.)	ASTM D4601	SBS modified bitumen, polyester reinforced, sand-surfaced base sheet. **For use as a base/ply sheet only.**
ELASTOPHENE HS Sanded	39" x 66' (2 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants and sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
ELASTOCOL 500	various	ASTM D41	Asphalt primer.
ELASTOCOL Stick	various	Proprietary	Polymer based primer.
ALSAN Flashing™	1.25 gallon pail or 3.75 gallon pail	Proprietary	One part polyurethane/bitumen resin, moisture cure compound for use as a flashing component.
SOPRAWALK	39" x 26' (3/4 sq.)	Proprietary	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and mineral granules on the top. Applied by hot asphalt, cold adhesive or ribbon stripping.
SOPRADRAIN ECOVENT 2	48"x100'	Proprietary	Polypropylene roof drain
DUOTACK	5 gallon pail, 55 gallon	Proprietary	Two part elastomeric urethane foam adhesive.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
STYROFOAM High Load 60 Insulation	Extruded Polystyrene Insulation, Type VII	Dupont de Nemours, Inc
STYROFOAM™ PLAZAMATE™	Extruded Polystyrene Insulation, Type VII	Dupont de Nemours, Inc

APPROVED FASTENERS:

TABLE 3

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

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

Product	Dimensions	Test Specification	Product Description	Manufacturer
Exterior Ceramic Tiles	12” x 12” x ½”	ASTM C56 & ANSI A137.1	Ceramic plaza deck walking tiles, 5% water absorption max.	Generic
Portland Cement	Various	ANSI A118.1	A thin-set Portland based mortar formulated for ceramic tile installation.	Generic
Concrete Pavers	12” x 12” x 1”	ASTM C936	high density concrete pavers	Generic
Wausau Lok-Down Paver	24” x 24” x 2”	ASTM C936	8000 psi Min. Compressive strength, 5% water absorption	Wausau Tile, Inc.
Lok-Down Tab	Base: 6.5” square plate Top: 5.8” square plate	Proprietary	SBR rubber tab used to support pavers to stand.	Wausau Tile, Inc.
Terra Stand Pedestal	5” round core	Proprietary	Copolymer polypropylene stand.	Wausau Tile, Inc.

EVIDENCE SUBMITTED:

Test Agency	Test Name/Report	Test Identifier	Date
NEMO ETC, LLC.	ASTM D6164	4q-SOP-22-SSMBB.G	02/15/23
FM Approvals	FM 4470	3029098	10/25/07
	FM 4470	3017614	02/27/06
	FM 4470	3023749	09/28/06
	FM 4470	3002351	02/28/03
UL LLC.	UL 790	R11436	06/16/23
Dynatech Engineering Corp.	TAS 114	10.94.27	10/27/94
	TAS 114	2491-04.95	01/04/95
Exterior Research & Design, LLC	TAS 114	2755.09.02-R1	10/19/02
	TAS 114	2761.09.03	09/02/03
	TAS 114	2760.12.04-R1	12/23/04
Trinity | ERD	TAS 114	S35010.10.10-R1	08/26/14
	TAS 114	S47170.08.14-1	08/25/14
	TAS 114	SC5190.08.14	08/19/14
IRT of S. Florida, Inc.	TAS 114	01-002	01/21/01
Intertek | Architectrural Testing	Physical Properties	F0856.01-106-18	05/13/16

APPROVED APPLICATIONS:

Membrane Type: SBS

Deck Type 3I: Concrete Decks, Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type A(1): Membrane adhered directly to primed concrete deck. Insulation adhered under surfacing for Terrace/Plaza Decks, Planters or Traffic Areas.

All General and System Limitations apply.

Substrate Preparation: All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants.

Primer: Primed with ASTM D 41 primer applied to top of composite board or top of cover board in insulation assembly.

Base/Ply Sheet: One or more plies of ELASTOPHENE Flam 2.2, ELASTOPHENE SP 2.2, COLPHENE SP 2.2, Elastophene 180 SP, SOPRALENE Flam 180, COLPHENE Flam 180, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, COLPHENE 180 SP 3.5, Sopralene Flam 250 or SOPRALENE 250 SP, torch-applied.

Membrane ELASTOPHENE Flam LS FR GR, ELASTOPHENE Flam FR GR, ELASTOPHENE Flam FR+ GR, SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180 FR GR, COLPHENE Flam 180 FR GR, SOPRALENE Flam 180 FR+ GR, SOPRALENE Flam 250 FR GR, COLPHENE Flam 250 FR GR or SOPRALENE Flam 250 FR+ GR, torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
STYROFOAM High Load 60 Insulation, STYROFOAM™ PLAZAMATE™		
Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers of insulation shall be adhered with DUOTACK adhesive beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Surfacing: Exterior grade ceramic plaza deck walking tiles (Minimum size of 12" x 12" and minimum ½" thickness) tiles shall be embedded into mud-set Portland Cement applied with a ¼" minimum square notched trowel. Tiles should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable Building Code.

Maximum Design Pressure: -255 psf. (See General Limitation #9.)

Membrane Type:	SBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	Terrace/Plaza Deck, Planter, Traffic
System Type A(2):	Concrete Paver Finish over Membrane.

All General and System Limitations apply.

Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants.
Primer:	ELASTOCOL 500, ELASTOCOL Stick or ASTM D 41 primer applied to deck at a rate of 100-150 ft^2/gal.
Base Sheet:	One or more plies of SOPRALENE Flam 180, COLPHENE Flam 180 or SOPRALENE Flam 250, torch-applied according to manufacturer's application instruction.
Membrane:	SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180 FR GR, COLPHENE Flam 180 FR GR, SOPRALENE 250 FR GR, COLPHENE 250 FR GR, torch-applied according to manufacturer's application instruction.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
STYROFOAM High Load 60 Insulation, STYROFOAM™ PLAZAMATE™		
Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers of insulation shall be adhered with DUOTACK adhesive beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Surfacing:	Concrete pavers (24" x 24" x 1.5" thick), 4000 psi minimum shall be embedded into mud-set Portland Cement applied with a ¼" minimum square notched trowel. Pavers should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable Building Code.
Maximum Design Pressure:	-255 psf. (See General Limitation #9)

Membrane Type:	SBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	Terrace/Plaza Deck, Planter, Traffic
System Type A(3):	Membrane adhered directly to primed concrete deck. Insulation adhered under surfacing for Terrace/Plaza Decks, Planters or Traffic Areas.

All General and System Limitations apply.

Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants.
Primer:	Concrete shall be primed with ASTM D 41 primer applied to top of composite board or top of cover board in insulation assembly.
Base/Ply Sheet:	One or more plies of ELASTOPHENE Flam 2.2, ELASTOPHENE SP 2.2, COLPHENE SP 2.2, Elastophene 180 SP, SOPRALENE Flam 180, COLPHENE Flam 180, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, COLPHENE 180 SP 3.5, SOPRALENE Flam 250 or SOPRALENE 250 SP, torch-applied.
Membrane	ELASTOPHENE Flam LS FR GR, ELASTOPHENE Flam FR GR, ELASTOPHENE Flam FR+ GR, SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180 FR GR, COLPHENE Flam 180 FR GR, SOPRALENE Flam 180 FR+ GR, SOPRALENE Flam 250 FR GR, COLPHENE Flam 250 FR GR or SOPRALENE Flam 250 FR+ GR, torch-applied.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Protection Board / Drainage Layer: (Optional)	Install drainage board over top ply membrane

One or more layers of any of the following insulations.

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
STYROFOAM High Load 60 Insulation, STYROFOAM™ PLAZAMATE™ Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers of insulation shall be adhered with DUOTACK adhesive beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Surfacing:	Structural Concrete Slab, minimum 2500 psi, in compliance with applicable Building Code.
Maximum Design Pressure:	N/A (Topping concrete slab shall comply with applicable Building Code requirement.)

Membrane Type:	SBS
Deck Type 4:	Lightweight Concrete Decks, Non-Insulated
Deck Description:	Celcore MF Cellular Lightweight Concrete, min. 300 psi.
System Type F(1):	Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or Traffic Areas.

All General and System Limitations apply.

Structural Deck:	2,500 psi structural concrete.
Primer: (Optional)	Deck primed with ASTM D41 primer.
Temp Roof: (Optional)	(*Smooth surface sheets*) One layer of ELASTOPHENE SP 2.2, COLPHENE SP 2.2, ELASTOPHENE SP 3.0, COLPHENE SP 3.0, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, COLPHENE 180 SP 3.5, SOPRALENE 250 SP, heat welded Or (*Granule surface sheets*) One layer of SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180 FR GR, COLPHENE Flam 180 FR GR, SOPRALENE Flam 180 FR+ GR, SOPRALENE Flam 250 FR GR, COLPHENE Flam 250 FR GR, SOPRALENE Flam 250 FR+ GR, heat welded.
LWIC:	Min. 300 psi Celcore MF Cellular Lightweight Concrete deck treated with Celcore PVA Curing Compound.
Primer:	ELASTOCOL 500, ELASTOCOL Stick primer at an application rate of 1 gal/sq.
Base Sheet:	COLVENT Flam 180 TG, torch-applied.
Ply Sheet: (Optional)	ELASTOPHENE Flam 2.2, ELASTOPHENE SP 2.2, COLPHENE SP 2.2, Elastophene 180 SP, SOPRALENE Flam 180, COLPHENE Flam 180, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, COLPHENE 180 SP 3.5, SOPRALENE Flam 250 or SOPRALENE 250 SP, torch-applied.
Membrane:	ELASTOPHENE Flam LS FR GR, ELASTOPHENE Flam FR GR, ELASTOPHENE Flam FR+ GR, SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180 FR GR, COLPHENE Flam 180 FR GR, SOPRALENE Flam 180 FR+ GR, SOPRALENE Flam 250 FR GR, COLPHENE Flam 250 FR GR or SOPRALENE Flam 250 FR+ GR, torch-applied.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water may be maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.
Surfacing:	Wausau Lok-Down Paver in Lok-Down over Terra-Stand: The 5-inch round Terra-Stand base is bonded to the top surface of the waterproofing system in Millennium Hurricane Force Membrane Adhesive at 150 ml per base, followed by Terra-Stand core and top components. The Lok-Down base is then bonded to the top surface of the Terra-Stand in Millennium Hurricane Force Membrane Adhesive at 120 ml per base. Followed by the 2' x 2' Terra-Pavers and the Lok-Down securement tabs and screws.
Maximum Design Pressure:	-122.5 psf. (See General Limitation #9.)

Membrane Type:	SBS
Deck Type 4:	Lightweight Concrete Decks, Non-Insulated
Deck Description:	Celcore MF Cellular Lightweight Concrete, min. 300 psi
System Type F(2):	Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or Traffic Areas.

All General and System Limitations apply.

Structural Deck:	2,500 psi structural concrete.
Primer: (Optional)	Deck shall be primed with ASTM D41 primer.
Temp Roof: (Optional)	(*Smooth surface sheets*) One layer of ELASTOPHENE SP 2.2, COLPHENE SP 2.2, ELASTOPHENE SP 3.0, COLPHENE SP 3.0, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, COLPHENE 180 SP 3.5, SOPRALENE 250 SP, heat welded.
LWC Deck:	Min. 300 psi Celcore MF Cellular Lightweight Concrete deck treated with Celcore PVA Curing Compound.
Primer:	Deck shall be primed with ELASTOCOL 500 or ELASTOCOL Stick primer at an application rate of 1 gal/sq.
Base Sheet:	COLVENT Flam 180 TG, torch-applied.
Ply Sheet: (Optional)	ELASTOPHENE Flam 2.2, ELASTOPHENE SP 2.2, COLPHENE SP 2.2, Elastophene 180 SP, SOPRALENE Flam 180, COLPHENE Flam 180, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, COLPHENE 180 SP 3.5, SOPRALENE Flam 250 or SOPRALENE 250 SP, torch- applied.
Membrane:	ELASTOPHENE Flam LS FR GR, ELASTOPHENE Flam FR GR, ELASTOPHENE Flam FR+ GR, SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180 FR GR, COLPHENE Flam 180 FR GR, SOPRALENE Flam 180 FR+ GR, SOPRALENE Flam 250 FR GR, COLPHENE Flam 250 FR GR or SOPRALENE Flam 250 FR+ GR, torch-applied.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water may be maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.
Surfacing:	Wausau Lok-Down Paver in Lok-Down: The Lok-Down base is bonded directly to the top surface of the waterproofing system in Millennium Hurricane Force Membrane Adhesive at 150 ml per base. Followed by the 2’ x 2’ Terra-Pavers and the Lok-Down securement tabs and screws.
Maximum Design Pressure:	-134 psf. (all other applications) (See General Limitation #9.)

Membrane Type:	SBS
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	Terrace/Plaza Deck, Planter, Traffic
System Type F(3):	Membranes applied directly to primed substrate.

All General and System Limitations apply.

Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants.
Primer:	ELASTOCOL 500, ELASTOCOL Stick or ASTM D41 primer at an application rate of 100-150 ft^2/gallon.
Base Sheet:	One layer of SOPRALENE Flam Stick*, SOPRALENE Stick, COLPHENE Stick, Self-adhered *Requires heat welded ply or cap membrane
Primer: (Optional)	ELASTOCOL 500, ELASTOCOL Stick applied at a rate of 1 gal./sq., to top surface of any base or ply sheet prior to application of next layer
Ply Sheet: (Optional)	One or more layers of ELASTOPHENE Flam 2.2*, SOPRALENE Flam 180*, COLPHENE Flam 180*, SOPRALENE Flam 250*, heat welded *Requires heat welded cap membrane.
Membrane:	One layer of ELASTOPHENE Flam LS FR GR, ELASTOPHENE Flam FR GR, ELASTOPHENE Flam FR+ GR, SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180 FR GR, COLPHENE Flam 180 FR GR, SOPRALENE Flam 180 FR+ GR, SOPRALENE Flam 250 FR GR, COLPHENE Flam 250 FR GR, SOPRALENE Flam 250 FR+ GR, heat welded.
Integrity Test:	Required, and shall be performed by an approved lab in accordance with ASTM D5957. Water may be maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.
Drain Board: (Optional)	SOPRADRAIN ECOVENT 2 adhered to the top membrane layer with DUOTACK adhesive applied in 6” spots in a 12 x 12-inch grid.
Surfacing: (Optional)	Min. 12” x 12” x 1” thick concrete pavers installed in ANSI A118.1 mud-set mortar, ¼” minimum notched trowel per ANSI A108.5.
Maximum Design Pressure:	-252.5 psf With Drain Board and Concrete Pavers (See General Limitation #9.) -272.5 psf. Without Drain Board and Concrete Pavers (See General Limitation #9.)

Membrane Type:	SBS
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	Terrace/Plaza Deck, Planter, Traffic
System Type F(4):	Membranes applied directly to primed substrate.

All General and System Limitations apply.

Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants.
Primer:	ELASTOCOL 500, ELASTOCOL Stick or ASTM D41 primer at an application rate of 100-150 ft^2/gallon.
Base Sheet:	One layer of COLVENT TG, COLVENT 180 TG or COLVENT Flam 180 TG*, heat welded. *requires torch applied top sheet
Primer: (Optional)	ELASTOCOL 500, ELASTOCOL Stick applied at a rate of 1 gal./sq., to top surface of any base or ply sheet prior to application of next layer
Ply Sheet: (Optional)	One or more layers of ELASTOPHENE Flam 2.2, ELASTOPHENE SP 2.2, COLPHENE SP 2.2, Elastophene 180 SP, SOPRALENE Flam 180, COLPHENE Flam 180, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, COLPHENE 180 SP 3.5, SOPRALENE Flam 250, SOPRALENE 250 SP, heat welded
Membrane:	One layer ELASTOPHENE Flam LS FR GR, ELASTOPHENE Flam FR GR, ELASTOPHENE Flam FR+ GR, SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180 FR GR, COLPHENE Flam 180 FR GR, SOPRALENE Flam 180 FR+ GR, SOPRALENE Flam 250 FR GR, COLPHENE Flam 250 FR GR, SOPRALENE Flam 250 FR+ GR, heat welded
Integrity Test:	Required, and shall be performed by an approved lab in accordance with ASTM D5957. Water may be maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.
Drain Board: (Optional)	SOPRADRAIN ECOVENT 2 adhered to the top membrane layer with DUOTACK adhesive applied in 6" spots in a 12 x 12-inch grid.
Surfacing: (Optional)	Min. 12" x 12" x 1" thick concrete pavers installed in ANSI A118.1 mud-set mortar, ¼" minimum notched trowel per ANSI A108.5.
Maximum Design Pressure:	-252.5 psf. With Drain Board and Concrete Pavers (See General Limitation #9.) -292.5 psf. Without Drain Board and Pavers (See General Limitation #9.)

Membrane Type:	SBS
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	Terrace/Plaza Deck, Planter, Traffic
System Type F(5):	Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or Traffic Areas.

All General and System Limitations apply.

Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants.
Primer:	Concrete deck shall be primed with ASTM D 41 primer and allowed to dry.
Base Sheet:	ELASTOPHENE Flam 2.2, ELASTOPHENE SP 2.2, COLPHENE SP 2.2, ELASTOPHENE SP 3.0, COLPHENE SP 3.0, SOPRALENE Flam 180, COLPHENE Flam 180, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, COLPHENE 180 SP 3.5 or SOPRALENE Flam 250, torch-applied.
Ply Sheet: (Optional)	ELASTOPHENE Flam 2.2, ELASTOPHENE SP 2.2, COLPHENE SP 2.2, ELASTOPHENE SP 3.0, COLPHENE SP 3.0, SOPRALENE Flam 180, COLPHENE Flam 180, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, COLPHENE 180 SP 3.5 or SOPRALENE Flam 250, torch-applied.
Membrane:	ELASTOPHENE Flam LS FR GR, ELASTOPHENE Flam FR GR, SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180 FR GR, COLPHENE Flam 180 FR GR, SOPRALENE Flam 250 FR GR, COLPHENE Flam 250 FR GR, torch-applied.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water may be maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.
Drain Board: (Optional)	SOPRADRAIN ECOVENT 2 adhered to the top membrane layer with DUOTACK adhesive applied in 6” spots in a 12 x 12-inch grid.
Surfacing: (Optional)	Min. 12” x 12” x 1” thick concrete pavers installed in ANSI A118.1 mud-set mortar, ¼” minimum notched trowel per ANSI A108.5.
Maximum Design Pressure:	-252.5 psf. with Drain Board and Pavers (See General Limitation #9.) -367.5 psf. without Drain Board and Pavers (See General Limitation #9.)

Membrane Type:	SBS
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	Terrace/Plaza Deck, Planter, Traffic
System Type F(6):	Membranes applied directly to primed substrate.

All General and System Limitations apply.

Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants.
Primer:	ELASTOCOL 500, ELASTOCOL Stick or ASTM D41 primer at an application rate of 100-150 ft^2/gallon.
Base Sheet:	One layer of COLVENT TG, COLVENT 180 TG or COLVENT Flam 180 TG*, heat welded. *requires torch applied top sheet
Primer: (Optional)	ELASTOCOL 500, ELASTOCOL Stick applied at a rate of 1 gal./sq., to top surface of any base or ply sheet prior to application of next layer
Ply Sheet: (Optional)	One or more layers of ELASTOPHENE Flam 2.2, ELASTOPHENE SP 2.2, COLPHENE SP 2.2, Elastophene 180 SP, SOPRALENE Flam 180, COLPHENE Flam 180, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, COLPHENE 180 SP 3.5, SOPRALENE Flam 250, SOPRALENE 250 SP, heat welded
Membrane:	One layer ELASTOPHENE Flam LS FR GR, ELASTOPHENE Flam FR GR, ELASTOPHENE Flam FR+ GR, SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180 FR GR, COLPHENE Flam 180 FR GR, SOPRALENE Flam 180 FR+ GR, SOPRALENE Flam 250 FR GR, COLPHENE Flam 250 FR GR, SOPRALENE Flam 250 FR+ GR, heat welded
Integrity Test:	Required, and shall be performed by an approved lab in accordance with ASTM D5957. Water may be maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.
Surfacing:	Exterior grade ceramic plaza deck walking tiles (Minimum size of 12” x 12” and minimum ½” thickness) tiles shall be embedded into mud-set Portland Cement applied with a ¼” minimum square notched trowel. Tiles should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable Building Code.
Maximum Design Pressure:	-292.5 psf. (See General Limitation #9.)

Membrane Type: SBS

Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck

System Type F(7): Membranes applied directly to substrate with Tile surfacing.

All General and System Limitations apply.

Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	ELASTOCOL 500, ELASTOCOL Stick or ASTM D 41 primer applied to deck at a rate of 100-150 ft^2/gal.
Base Sheet:	One or more plies of ELASTOPHENE Flam 2.2 or SOPRALENE Flam 180, COLPHENE Flam 180, SOPRALENE Flam 250, heat welded according to manufacturer's application instruction.
Membrane:	ELASTOPHENE Flam LS FR GR, SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180 FR GR, COLPHENE Flam 180 FR GR, ANTIROCK heat welded according to manufacturer's application instruction.
Integrity Test:	Required, and shall be performed by an approved lab in accordance with ASTM D5957. Water may be maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Surfacing:	Exterior grade ceramic plaza deck walking tiles (Minimum size of 12" x 12" and minimum ½" thickness) tiles shall be embedded into mud-set Portland Cement applied with a ¼" minimum square notched trowel. Tiles should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable Building Code.
Maximum Design Pressure:	-375 psf. (See General Limitation #9)

Membrane Type:	SBS
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	Min. 2500 psi, dual slab construction (roof plaza and parking decks)
System Type F(8):	Membranes applied directly to primed substrate with concrete surfacing.

All General and System Limitations apply.

Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	ELASTOCOL 500, ELASTOCOL Stick or ASTM D 41 primer applied to deck at a rate of 100-150 ft^2/gal.
Base Sheet:	One or more plies of SOPRALENE Flam 180 or SOPRALENE Flam 250, heat welded according to manufacturer's application instruction.
Membrane:	SOPRALENE Flam 180 GR, COLPHENE Flam 180 GR, SOPRALENE Flam 180, SOPRALENE Flam 250 FR GR, COLPHENE Flam 250 FR GR or ANTIROCK, heat welded according to manufacturer's application instruction.
Integrity Test:	Required, and shall be performed by an approved lab in accordance with ASTM D5957. Water maybe maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Protection Board and/or Drainage Layer: (Optional)	Install drainage board over top ply membrane
Surfacing:	Structural Concrete Slab, minimum 2500 psi, in compliance with applicable Building Code.
Maximum Design Pressure:	N/A (Topping concrete slab shall comply with applicable Building Code requirement.)

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. All work shall be performed by a Contractor licensed to do roofing/waterproofing and be a Manufacturer Trained 'Qualified Applicator' approved by SOPREMA. SOPREMA shall supply a list of approved applicators to the authority having jurisdiction.
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. 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. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
11. 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.
12. Required integrity flood testing shall be provided to the Building Official for review at time of final inspection.

END OF THIS ACCEPTANCE