



**MIAMI-DADE**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**  
**140 WEST FLAGLER STREET, SUITE 1603**  
 MIAMI, FLORIDA 33130-1563  
 (305) 375-2901 FAX (305) 375-2908

**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 by the BCCO and accepted by the Building Code and Product Review Committee 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 BCCO (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. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO 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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Soprema Waterproofing System**

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

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

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

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

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

This NOA revises NOA # 03-0210.01 and consists of pages 1 through 32.  
 The submitted documentation was reviewed by Jorge L. Acebo.



**NOA No.: 04-0927.08**  
**Expiration Date: 09/18/08**  
**Approval Date: 02/23/06**  
**Page 1 of 32**

## ROOFING SYSTEM APPROVAL

Category: Roofing  
Sub-Category: Waterproofing  
Material: Modified Bitumen SBS  
  
Deck Type: Steel and Concrete  
Maximum Design Pressure -570.0 psf  
Fire Classification: See General Limitation #1

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Sopra-G	39" x 108' (3.5 sq.)	ASTM D 4601	Fiberglass reinforced oxidized asphalt base sheet for bonding or mechanically attaching to substrate.
Modified Sopra-G	39" x 108' (3.5 sq.)	ASTM D 4601	Fiberglass reinforced modified asphalt base sheet for bonding or mechanically attaching to substrate.
Sopraglass M	39" x 66' (2 sq.)	ASTM D 5147	Fiberglass reinforced modified bitumen base sheet. Applied in hot asphalt, cold adhesive or ribbon stripping.
Sopraglass M GR	39" x 33' (1 sq.)	ASTM D5147	Fiberglass reinforced modified bitumen base sheet with a mineral granular top surface. Applied in hot asphalt, cold adhesive or ribbon stripping.
Sopra ESHAvent	39" x 49' (1.5 sq.)	ASTM D 1970	Fiberglass reinforced modified bitumen membrane with self-adhering round areas on back side and a sanded top side.
Sopraglass 40	39" x 82' (2.5 sq)	ASTM D 4601 Type I	Fiberglass reinforced oxidized asphalt base sheet for bonding, mechanically attaching or ribbon stripping to substrate.
Sopraglass 100	39" x 66' (2 sq.)	ASTM D 4601	Fiberglass reinforced oxidized asphalt base sheet for bonding or mechanically attaching to substrate.
Soprabase	39" x 99' (3 sq.)	ASTM D 6164	Oxidized asphalt, polyester reinforced base sheets. Primarily used as a mechanically attached anchor sheet. Applied in hot asphalt, cold adhesive or ribbon stripped.
Sopra IV or VI	36" x 180' (5 sq.)	ASTM D 2178 Type IV or VI	Type IV or VI, fiberglass reinforced, smooth surfaced ply sheet. Sopra IV or VI are used in multi-ply systems and complies with ASTM and UL Standards. Applied in hot asphalt or cold adhesive.



NOA No.: 04-0927.08  
 Expiration Date: 09/18/08  
 Approval Date: 02/23/06  
 Page 2 of 32

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Colvent TG	39" x 49' (1.5 sq.)	ASTM D 6163	Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied heat weldable strips on back side.
Colvent SA	39" x 49' (1.5 sq.)	ASTM D 6163	Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied self-adhering strips on back side
Colvent 180 TG	39" x 43' (1 sq.)	ASTM D 6164	Polyester reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side.
Colvent 180 SA	39" x 43' (1 sq.)	ASTM D6164	Polyester reinforced, modified bitumen membrane with 1" wide factory applied self-adhering strips on back side
Colvent 180 TG GR	39" x 43' (1 sq.)	ASTM D 6164	Polyester reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side, and a mineral granular top surface.
Colvent 180 SA GR	39" x 43' (1 sq.)	ASTM D6164	Polyester reinforced, modified bitumen membrane with 1" wide factory applied self-adhering strips on back side and a mineral granular top surface.
Sopra G-Vent	39" x 99' (3 sq.)	ASTM D 4601 Type II	Fiberglass reinforced, modified bitumen membrane with perforated holes.
Elastophene Sanded	39" x 49' (1½ sq.)	ASTM D 6163	Fiberglass reinforced modified bitumen membrane sanded on both sides, used as a base and top ply. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene Sanded 3.0	39" x 33' (1sq.)	ASTM D 6163	Fiberglass reinforced modified bitumen membrane sanded on both sides, used as a base and top ply. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene HD	39" x 33' (1 sq.)	ASTM D 6163	Fiberglass reinforced modified bitumen membrane sanded on both sides, used as a base and top ply. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene HS FR	39" x 66' (2 sq.)	ASTM D 6162	Woven fiberglass/polyester composite reinforced modified bitumen membrane with fire retardants and sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene Sanded FR	39" x 49' (1½ sq.)	ASTM D 6163	Fiberglass reinforced modified bitumen membrane with fire retardants and sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene HR	39" x 49' (1½ sq.)	ASTM D 6163	Fiberglass scrim reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Elastophene HR FR	39" x 49' (1½ sq.)	ASTM D 6163	Fiberglass scrim reinforced modified bitumen membrane with fire retardants and sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene HP	39" x 66' (2 sq.)	ASTM D 5147	Fiberglass/non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene PS	39" x 49' (1½ sq.)	ASTM D 6163	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 2.2mm	39" x 49' (1½ sq.)	ASTM D 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 3.0mm	39" x 49' (1 sq.)	ASTM D 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 Flam	39" x 33' (1 sq.)	ASTM D 6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Elastophene Flam 2.2	39" x 49' (1½ sq.)	ASTM D 6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Elastophene Flam HS FR	39" x 33' (1 sq.)	ASTM D6162	Woven fiberglass/polyester composite reinforced modified bitumen membrane with fire retardants and plastic burn-off film on both sides. Applied by heat welding.
Elastophene Flam HP	39" x 66' (2 sq.)	ASTM D 5147	Fiberglass/non-woven polyester reinforced modified bitumen membrane with plastic burn-off film on both sides. Applied by heat welding.
Elastophene 180 Sanded	39" x 49' (1½ sq.)	ASTM D 6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene 180 PS	39" x 48' (1½ sq.)	ASTM D 6164	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top, used as a base sheet. Applied in hot asphalt, cold adhesive or ribbon stripping.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Elastophene GR	39" x 33' (1 sq.)	ASTM D 6163	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 or FR+ GR	39" x 33' (1 sq.)	ASTM D 6163	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 HR FR GR	39" x 33' (1 sq.)	ASTM D 6163	Fiberglass scrim 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 HS FR GR	39" x 33' (1 sq.)	ASTM D 6162	Woven fiberglass/polyester composite 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 HP FR GR	39" x 33' (1 sq.)	ASTM D 5147	Fiberglass/non-woven polyester 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 GR	39" x 33' (1 sq.)	ASTM D 6163	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 or FR+ GR	39" x 33' (1 sq.)	ASTM D 6163	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 HR FR GR	39" x 33' (1 sq.)	ASTM D 6163	Fiberglass scrim 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).
Elastophene Flam HS FR GR	39" x 33' (1 sq.)	ASTM D 6162	Woven fiberglass composite 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).
Elastophene Flam HP FR GR	39" x 33' (1 sq.)	ASTM D 5147	Fiberglass/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).



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Sopralene 180, 250 or 350	39" x 33' (1 sq.) 39" x 26' (¾ sq.)	ASTM D 6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides, used as a base/ply/cap. Applied in hot asphalt, cold adhesive or ribbon stripping.
Sopralene 180 SP 3.5 mm	39" x 33' (1 sq.)	ASTM D 6164	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).
Soprafix [S], [H], [F] and [X]	39" x 33' (1 sq.)	ASTM D 6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Soprafix	39" x 33' (1 sq.)	ASTM D 6164	Non-woven polyester reinforced modified bitumen membrane with a 4-inch or 5-inch wide side lap with a plastic burn-off film on the bottom and sanded on the top. Applied by mechanical attachment. Lap heat welded or sealed with an approved cold adhesive.
Soprafix-e	39" x 33' (1 sq.)	ASTM D 6164	Non-woven polyester reinforced modified bitumen membrane with a 5-inch wide side lap with a self-adhering compound and release film and sanded on the bottom and top surfaces. Applied by mechanical attachment. Lap self-adhered or sealed with approved cold adhesive.
Soprafix (X)	39" x 33' (1 sq.)	ASTM D 6164	Non-woven polyester reinforced modified bitumen membrane with plastic burn-off film or sanded on the top and bottom surfaces and a 6-inch wide side lap. Applied by heat welding.
Sopralene Flam 180 or 250	39" x 33' (1 sq.)	ASTM D 6164	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 180, 250 or 350 GR or FR GR	39" x 33' (1 sq.)	ASTM D 6164	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).
Sopralene Flam 180, 250 or 350 GR	39" x 33' (1 sq.)	ASTM D 6164	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).



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Sopralene Flam 180, 250 or 350 FR GR or FR+ GR	39" x 33' (1 sq.)	ASTM D 6164	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 180 2.7 mm	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).
Sopralast	various	ASTM D 6298	Fiberglass reinforced modified bitumen sheeting faced with aluminum, copper or stainless steel foil. Applied by heat welding of ribbon stripping (after removal of plastic burn-off film).
UNILAY	39" x 33' (1 sq.)	ASTM D 6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and surfaced with mineral granules. Applied by mechanical attachment, heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Stick	39" x 33' (1 sq.)	ASTM D 6164	Self adhered, polyester reinforced membrane with a release film on the bottom and a sanded top.
Sopralene Flam Stick	39" x 33' (1 sq.)	ASTM D 6164	Self adhered, polyester reinforced membrane with a release film on the bottom and a plastic burn-off film on the top.
EPS Flam Stick	39" x 33' (1 sq.)	ASTM D 6163	Self adhered, film surfaced, glass mat/glass grid reinforced membrane with a release film on the bottom and a plastic burn-off film on the top.
Colphene 1000 or 1500	39" x 33' (1 sq.) 39" x 132' (4 sq.) 39" x 66' (2.1 sq.)	ASTM D 1970	Self adhered, non-reinforced membranes used as a vapor retarder.
Colphene FR GR	39" x 33' (1 sq.)	ASTM D 6163	Self adhered, granule surfaced, fiberglass reinforced membranes.
Colphene HR FR GR	39" x 33' (1 sq.)	ASTM D 6163	Self adhered, granule surfaced, fiberglass scrim reinforced membranes.
Lastobond S or P	39" x 49' (1½ sq.)	ASTM D 1970	Self-adhered underlayment membrane.
Lastobond Shield	various	ASTM D 1970	Self-adhering underlayment membrane.
Lastobond Shield HT	various	ASTM D 1970	Self-adhering underlayment membrane.
Lastobond Shield- R	various	ASTM D 1970	Self-adhering underlayment membrane.
Lastobond Shield- HT RW	various	ASTM D 1970	Self-adhering underlayment membrane.
Sopratape 606	5" wide		Bituminous tape for sealing of side and head laps.
Sopramastic 200	17 oz. pouch or 10.4 oz cartridge		Caulking compound.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Elastocol 500 and 600c Sopracolle		ASTM D 41	Asphalt primers.  Cold-applied adhesive used to bond membrane to prepared substrates or to other membranes.
ALSAN Flashing™	1.25 gallon pail or 3.75 gallon pail		One part polyurethane/bitumen resin, moisture cure compound.
SBS Mastic	10.4 oz tube		Plasticized rubber/bitumen mastic compound.
SBS Elastic Cement	5 gallon pail		Elastomeric bitumen based mastic compound.
Soprawalk	39" x 26' (3/4 sq)		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.
High Velocity® Insulation Adhesive II (HVIA-II)		Proprietary	One part elastomeric urethane foam adhesive.
High Velocity® Insulation Adhesive III (HVIA-III)		Proprietary	Two part elastomeric urethane foam adhesive.
FM Adhesive	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Plastomeric bitumen based cold adhesive.
FM Adhesive Trowel Grade	5 gallon pail	Proprietary	Plastomeric bitumen based cold adhesive.
FM Adhesive (VOC)	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Elastomeric bitumen based cold adhesive.
FM Adhesive (VOC) Trowel Grade	5 gallon pail	Proprietary	Elastomeric bitumen based cold adhesive.
High Velocity® Membrane Adhesive	5 gallon pail or 55 gallon drum	Proprietary	Polyurethane bitumen adhesive.
Sopraboard	various		Mineral fortified Asphaltic cored cover board between two layers of asphalt saturated fiberglass mat.



**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
Apache Pyrox, Apache White Line, Apache Pyrox PSI-25, Apache White Line PSI-25	Polyisocyanurate foam insulation	Apache Products Company
Apache Millox, Apache Millox-P ACFoam II, ACFoam III	Composite Polyisocyanurate insulation Polyisocyanurate foam insulation	Apache Products Company Atlas Energy Products
ACFoam Composite	Composite Polyisocyanurate insulation board	Atlas Energy Products
FlintBoard ISO, FlintBoard ISO Cold FlintBoard ISO Plus	Polyisocyanurate foam insulation Composite Polyisocyanurate insulation board	CertainTeed Corp. CertainTeed Corp.
Hytherm AP	Polyisocyanurate foam insulation	Dow
Hytherm Composite	Composite Polyisocyanurate insulation	Dow
ISO 95+, ISO 95+ (25psi)	Polyisocyanurate foam insulation	Firestone
ISO 95+ Composite	Composite Polyisocyanurate insulation board	Firestone
EnergyGuard ISO, EnergyGuard Ultra	Polyisocyanurate foam insulation	GAF
EnergyGuard Composite	Composite Polyisocyanurate insulation board	GAF
Extruded or Expanded Polystyrene	Polystyrene Insulation	generic
Gypsum	Gypsum board	generic
High Density Wood Fiberboard	Wood fiber insulation board	generic
Perlite Insulation	Perlite insulation board	generic
DensDeck, DensDeck Prime, DensDeck Fireguard, DensDeck Prime Fireguard, DensDeck DuraGuard	Water resistant gypsum board	G-P Gypsum Corp.
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, Inc.
H-Shield CG	Polyisocyanurate foam insulation	Hunter Panels, Inc.
H-Shield-P, H-Shield-WF	Composite Insulation board	Hunter Panels, Inc.
ENRGY-2	Polyisocyanurate foam insulation	Johns Manville
ENRGY-2 Plus, Composite, Fesco Foam	Composite Insulation board	Johns Manville
ENRGY-3	Polyisocyanurate foam insulation	Johns Manville
ENRGY-3 Plus	Composite Insulation board	Johns Manville
Multi-Max FA	Polyisocyanurate foam insulation	RMax
Thermarroof Composite	Composite Insulation board	RMax
UltraMax	Polyisocyanurate foam insulation	RMax
Multi-Max FA-3	Polyisocyanurate foam insulation	RMax
Thermarroof Composite-3	Composite insulation board	RMax
SECUROCK®	Gypsum board	US Gypsum



**NOA No.: 04-0927.08**  
**Expiration Date: 09/18/08**  
**Approval Date: 02/23/06**  
**Page 9 of 32**

**APPROVED FASTENERS:**

**TABLE 3**

<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
Tri-Fix Fastening System	Fastening system for base sheet attachment to lightweight concrete, gypsum or cementitious wood fiber decks.	3" diameter plate with various length fasteners	Soprema, Inc.
#12, #14 & #15 Soprema Fasteners	Fasteners for membrane or insulation attachment to wood, steel or concrete decks.		Soprema, Inc.
Soprafix [X]-EL #15	Fasteners for membrane attachment to steel or concrete decks.		Soprema, Inc.
Soprafix Plates	AZ-55 Galvalume steel plate for use with the Soprafix system.	2" diameter	Soprema, Inc.
Soprema Plates	Metal or plastic stress plates for use with Soprema Fasteners.	3" diameter	Soprema, Inc.
Sopradisc	Galvanized metal bearing plate used for side lap attachment of Soprafix system.	2" diameter	Soprema, Inc.
Soprema Isofast IF/IFT	AZ-50 Galvalume steel plate for use with the Soprafast System.	2¾" diameter	Soprema, Inc.
Soprafix/Soprafast	Stress plates for membrane securement.	3" diameter	Soprema, Inc.
UNILAY Plate	Stress plates for Unilay membrane securement.	2-3/8" diameter	Soprema, Inc.
#12, #14 & #15 Dekfast Fastener	Insulation fastener		Construction Fasteners, Inc.
Omega Fastener	Stainless steel insulation fastener		Construction Fasteners, Inc.
Dekfast Hex Plate	Galvalume AZ50 steel plate	2 7/8" x 3 1/4"	Construction Fasteners, Inc.
Dekfast Lock Plate	Polypropylene locking plate.	3" x 3 1/4"	Construction Fasteners, Inc.
Twin Loc-Nails	Base ply fastening systems for lightweight concrete, gypsum or cementitious wood fiber decks		ES Products, Inc.
FM-30, FM-45, FM-60, FM-90 Fasteners	Base ply fastening systems for lightweight concrete decks		ES Products, Inc.
#12, #14 & #15 Roofgrip Fasteners	Insulation fastener for wood, steel and concrete.		ITW Buildex Corp.



NOA No.: 04-0927.08  
 Expiration Date: 09/18/08  
 Approval Date: 02/23/06  
 Page 10 of 32

**APPROVED FASTENERS:**

**TABLE 3**

<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
AccuTrac Hextra Fasteners	Insulation fastener for wood, steel and concrete.		ITW Buildex Corp.
Polymer Gyptec	Glass reinforced Nylon insulation fastener for gypsum & CWF decks.		ITW Buildex Corp.
Polymer Gyptec Metal Plate	Galvalume stress plate	3" round	ITW Buildex Corp.
Accutrac Plate	Galvalume square stress plate	3" square	ITW Buildex Corp.
Metal Plate	Galvalume stress plate.	3" round 3" square	ITW Buildex Corp.
Gearlok Plastic Plate	Polyolefin round stress plate	3.2" round	ITW Buildex Corp.
Olympic CR Base Ply Fasteners	Base ply fastening assembly		OMG, Inc.
NTB Magnum	Glass reinforced Nylon insulation fastener for gypsum & CWF decks with barbs.		OMG, Inc.
NTB Plate	Galvalume stress plate	3" round	OMG, Inc.
Lite-Deck	Insulation fastener for CWF and Gypsum decks.		OMG, Inc.
Lite-Deck Plate	Galvalume stress plate	3" round	OMG, Inc.
Olympic Fastener #12, #14 & #15	Insulation fastener.		OMG, Inc.
Olympic CD-10	Insulation fastener.		OMG, Inc.
Olympic Fluted Nail	Insulation fastener.		OMG, Inc.
Olympic Standard	Galvalume AZ50 steel plate	3" round	OMG, Inc.
Olympic Plastic	Polypropylene stress plate	3.25" round	OMG, Inc.
Powerlite	Insulation fastener.		Powers Fasteners, Inc.
Powerlite	Galvalume stress plate.	3" round	Powers Fasteners, Inc.
Base-Lok Fasteners	Base sheet fastener for lightweight concrete, cwf and gypsum decks	1.75" long with 3" dia. head	Simplex Nails
Turbo Tube-Lok Fasteners	Base sheet fastener for lightweight concrete, cwf and gypsum decks	1.75" long with 2" dia. head	Simplex Nails
SFS Base-Lok Fasteners	Base sheet fastener for lightweight concrete, cwf and gypsum decks	1.75" long with 3" dia. head	SFS Intec, Inc.



**APPROVED FASTENERS:**

**TABLE 3**

<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
Insul-Fixx Fastener	Insulation fastener for wood, steel and concrete.		SFS Intec, Inc.
Isofast Fasteners	Insulation fastener for wood, steel and concrete.		SFS Intec, Inc.
Extra Load Fasteners #15	Fasteners for membrane attachment to steel or concrete decks.		SFS Intec, Inc.
Insul-Fixx S Plate	Galvalume AZ50 steel plate	3" round	SFS Intec, Inc.
Insul-Fixx P Plate	Polyethylene stress plate	3" round	SFS Intec, Inc.
Isofast Plate	Square or oblong galvalume steel plates for use with Isofast fasteners		SFS Intec, Inc.
ES-I Fastening Systems	Insulation fastening assembly with plate.	3" round	SFS Intec, Inc.
#12, #14 & #15 Dekfast Fastener	Insulation fastener		SFS Intec
Omega Fastener	Stainless steel insulation fastener		SFS Intec
Dekfast Hex Plate	Galvalume AZ50 steel plate	2 7/8" x 3 1/4"	SFS Intec
DekFlat Lock Plate	Polypropylene locking plate.	3" x 3 1/4"	SFS Intec
Tru-Fast TL Fastener	Insulation fastener for lightweight concrete, CWF and gypsum decks		The Tru-Fast Corp.
Tru-Fast Fastener	Insulation fastener for wood, steel and concrete.		The Tru-Fast Corp.
Tru-Fast HD or EHD	Insulation fastener for wood, steel and concrete.		The Tru-Fast Corp.
Tru-Fast MP-3	Galvalume AZ50 steel plate	3" round	The Tru-Fast Corp.
Tru-Fast Metal	Galvalume AZ55 steel plate	3" round	The Tru-Fast Corp.
Tru-Fast Plastic	Polypropylene plate	3" round	The Tru-Fast Corp.
ES Products Batten Bar-TL	Batten bar		ES Products, Inc.
#12 Hextra	Insulation fastener		ITW Buildex Corp.
Polymer Batten Strip	Modified polymer batten bar		ITW Buildex Corp.
MAXLoad	Insulation fastener		ITW Buildex Corp.
Olympic Heavy Duty	Insulation fastener		OMG, Inc.
Olympic ASAP 3P	Pre-assembled insulation fastener and plastic plate	3" round	OMG, Inc.
Olympic ASAP 3S	Pre-assembled insulation fastener and steel plate	3" round	OMG, Inc.



NOA No.: 04-0927.08  
 Expiration Date: 09/18/08  
 Approval Date: 02/23/06  
 Page 12 of 32

**APPROVED FASTENERS:**

**TABLE 3**

<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
Isofast IF2	Insulation fastener		SFS Intec
Isofast IF/IG	Galvalume AZ50 steel plate	82 x 40 mm	SFS Intec
Isofast IFC/TW	Galvalume AZ50 steel plate	70 x70 mm	SFS Intec
#15 Dekfast HS	Insulation fastener		SFS Intec
Galvalume Steel 3"	Galvalume AZ50 steel plate	3" round	SFS Intec
Round Insulation Plate			
K-Fast Fastener	Insulation Fastener		SFS Intec
Dekfast Steel Batten Bar	Galvalume AZ50 steel		SFS Intec
Dekfast Coiled Batten Strip	Batten bar		SFS Intec
Soprafix #14 PAS-2" SB Stress Plate	Pre-assembled plate and fastener	2" diameter	Soprema, Inc.
Soprema 3" Insulation Plate	Stress plate	3" diameter	Soprema, Inc.
Soprafix 2" – SB Stress Plate	Stress plate	2" diameter	Soprema, Inc.
Soprafix 2-3/8" – SB Stress Plate	Stress plate	2-3/8" diameter	Soprema, Inc.
Soprafix (X) 2-3/4" Stress Plate	Stress plate	2-3/4" diameter	Soprema, Inc.
Soprafix MBB-R	Metal Batten Bar		Soprema, Inc.
Soprema #12, #14, #15 Fastener	Insulation and membrane fasteners		Soprema, Inc.
Soprema PAS #12-3" Insulation Plate	Pre-assembled plate and fastener	3" diameter	Soprema, Inc.
Soprafix #21-K Fastener	Insulation and membrane fastener		Soprema, Inc.
Tru-Fast DP	Insulation fastener for wood, steel and concrete		The Tru-Fast Corp.
Tru-Fast SHD	Insulation fastener for wood, steel and concrete		The Tru-Fast Corp.
Tru-Fast MPH-3	Galvalume AZ50 steel plate	3" round	The Tru-Fast Corp.
Tru-Fast MP-2000			The Tru-Fast Corp.
Tru-Fast MPB-2000			The Tru-Fast Corp.
Tru-Fast MPB-2400			The Tru-Fast Corp.
Tru-Fast BB-18 Batten Bar	Galvalume AZ55 steel batten bar		The Tru-Fast Corp.
Tru-Fast BB-18-R Batten Bar	Galvalume AZ55 steel batten bar with recessed holes		The Tru-Fast Corp.
Tru-Fast Twin-Loc Batten Bar	Batten bar		The Tru-Fast Corp.



**EVIDENCE SUBMITTED:**

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corp.	J.I. 1W8A1.AM	Wind Uplift Classification	07.15.93
	J.I. 1Z3A6.AM	Wind Uplift Classification	04.27.95
	J.I. 2D0A0.AM	Wind Uplift Classification	08.15.97
	FM Approval Guide	Uplift Classifications	Published Annually
Underwriters Laboratories, Inc.	UL Roofing Materials and Systems Directory	File No. R11436 Fire Classification	Published Annually
Dynatech Engineering Corp.	10.94.27	Wind Uplift	10.27.94
Exterior Research & Design, LLC	2491-04.95	Wind Uplift	01.04.95
	2003.02.97-1	Wind Uplift	02.15.97
	2003-2.04.97-1	Wind Uplift	04.15.97
	2002.07.97-1	Wind Uplift	08.15.97
	2755.09.02	Wind Uplift	10.19.02
	2761.09.03	Wind Uplift	09.02.03
IRT of S. Florida, Inc.	2761.10.03-2	Wind Uplift	10.03.03
	01-002	TAS 114	01.21.01
ITS / Warnock Hersey		ASTM D 5147 Physical Property Testing	05.27.93



**APPROVED APPLICATIONS:**

**Deck Type 2I:** Steel, Insulated  
**Deck Description:** Terrace/Plaza Deck, Planter, Traffic  
**System Type:** Waterproofing System for Terrace/Plaza Decks, Planters or Traffic Areas

**All General and System Limitations apply.**

<b>Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Toprox Minimum 1" thick</b>	<b>1 or 11</b>	<b>1:2.4 ft<sup>2</sup></b>
<b>AC Foam II, AC Foam III Minimum 1.5" thick</b>	<b>1, 3,4, 7, 8, 11, 14, 15, 19 or 20</b>	<b>1:2 ft<sup>2</sup></b>
<b>AC Foam Composite, ENRGY-2 Composite, ENRGY-2 Plus, ENRGY-3 Plus Minimum 1.5" thick</b>	<b>1, 3,4, 7, 8, 11, 14, 15, 19 or 20</b>	<b>1:4 ft<sup>2</sup></b>
<b>ENRGY-2, PSI-25 Minimum 1.4" thick</b>	<b>1, 3,4, 7, 8, 11, 14, 15, 19 or 20</b>	<b>1:2.67 ft<sup>2</sup></b>
<b>AC Foam II, AC Foam III, ENRGY-2, ENRGY-3, PSI-25 Minimum 2" thick</b>	<b>1, 3,4, 7, 8, 11, 14, 15, 19 or 20</b>	<b>1:4 ft<sup>2</sup></b>
<b>ENRGY-2, ENRGY-3, PSI-25 Minimum 1.4" thick</b>	<b>1, 3,4, 7, 8, 11, 14, 15, 19 or 20</b>	<b>1:2.67 ft<sup>2</sup></b>
<b>Dens-Deck Minimum ¼" thick</b>	<b>1, 3, 8 or 14</b>	<b>1:4 ft<sup>2</sup></b>
<b>Fireguard, type X gypsum Minimum 5/8" thick</b>	<b>1, 3, 8 or 14</b>	<b>1:4 ft<sup>2</sup></b>
<b>GAFTEMP Permalite, Fesco Board Minimum ¼" thick</b>	<b>1, 3,4, 7, 8, 11, 14, 15, 19 or 20</b>	<b>1:2 ft<sup>2</sup></b>
<b>Esgard, High Density Fiberboard, GAFTEMP Fiberboard, Huebert Fiberboard Minimum 1" thick</b>	<b>1, 3,4, 7, 8, 11, 14, 15, 19 or 20</b>	<b>1:4 ft<sup>2</sup></b>



**Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

Primer: Elastocol 500 or ASTM D 41 primer applied to top of composite board or top of cover board in insulation assembly.

Base Sheet: Sopralene Flam 180 or 250, heat welded.

Top Sheet: Sopralene Flam 250, Sopralene Flam Antirock, Sopralene Flam 180 GR heat welded.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. 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.

Drain Board: SopraDrain (for planters only)

Filter Layer: SopraFiltre (for planters only)

Surfacing: For Terrace/Plaza Deck: Mortar set tile or paver system  
For Planters: Soil or Sand  
For Traffic Areas: Mortar set exterior traffic grade surface tile.

Maximum Design Pressure: -52.5 psf (See General Limitation #9)



NOA No.: 04-0927.08  
Expiration Date: 09/18/08  
Approval Date: 02/23/06  
Page 16 of 32

**Deck Type 2:** Steel, Insulated  
**Deck Description:** Terrace/Plaza Deck, Planter, Traffic  
**System Type:** Waterproofing System for Terrace/Plaza Decks, Planters or Traffic Areas

**All General and System Limitations apply.**

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Dens Deck Minimum ¼" thick</b>	<b>1, 3, 11 or 14</b>	<b>1:4 ft<sup>2</sup></b>
<b>Fireguard, Fiberbond Minimum 5/8" thick</b>	<b>1, 3, 11 or 14</b>	<b>1:4 ft<sup>2</sup></b>

**Note:** Base layer 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).

<b>Intermediate Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Dow Chemical ROOFMATE or PLAZAMATE Minimum 1.5 thick</b>	<b>N/A</b>	<b>N/A</b>
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Perlite Minimum ¾" thick</b>	<b>N/A</b>	<b>N/A</b>

**Note:** Intermediate and top layer of insulation shall be adhered with approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>, allow asphalt to cool to 225°-250°F before placement of insulation. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Primer:** Elastocol 500 or ASTM D 41 primer applied to top of composite board or top of cover board in insulation assembly.

**Base Sheet:** Sopralene Flam 180 or 250, heat welded.

**Top Sheet:** Sopralene Flam 250, Sopralene Flam Antirock, Sopralene Flam 180 GR heat welded.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. 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.



**NOA No.:** 04-0927.08  
**Expiration Date:** 09/18/08  
**Approval Date:** 02/23/06  
**Page 17 of 32**

Drain Board: SopraDrain (for planters only)  
Filter Layer: SopraFiltre (for planters only)  
Surfacing: For Terrace/Plaza Deck: Mortar set tile or paver system  
For Planters: Soil or Sand  
For Traffic Areas: Mortar set exterior traffic grade surface tile.  
Maximum Design Pressure: -45 psf (See General Limitation #9)



**Deck Type 3I:** Concrete Decks, Non-Insulated

**Deck Description:** Min. 2500 psi.

**System Type:** Tile 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. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.

**Primer:** Elastocol 500 or ASTM D 41 primer applied to deck at a minimum rate of 100-150 ft<sup>2</sup>/gal.

**Base Sheet:** One or more plies of Elastophene Flam, heat welded according to manufacturer's application instruction.

**Top Sheet:** Elastophene Flam GR, heat welded according to manufacturer's application instruction.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. 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:** Min. 2" thick Dow Chemical STYROFOAM High Load 60 Insulation (Minimum 60 psi) adhered to membrane with High Velocity Insulation Adhesive II applied in ¾" wide strips spaced 12" o.c. or hot asphalt is applied to the membrane at a rate of 20-40 lbs/100 ft<sup>2</sup> and allowed to cool to 225°-250°F before placement of extruded polystyrene boards.

**Surfacing:** Exterior grade ceramic plaza deck walking tiles (Maximum size of 12" x 12" and minimum ½" thick), tiles shall be embedded into dry-set Portland Cement applied with a ¼" 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:** -277.5 psf (See General Limitation #9)



NOA No.: 04-0927.08  
Expiration Date: 09/18/08  
Approval Date: 02/23/06  
Page 19 of 32

**Deck Type 3I:** Concrete Decks, Non-Insulated

**Deck Description:** Min. 2500 psi.

**System Type:** Tile 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. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.

**Primer:** Elastocol 500 or ASTM D 41 primer applied to deck at a rate of 100-150 ft<sup>2</sup>/gal.

**Base Sheet:** One or more plies of Elastophene Flam or Sopralene Flam 180, 250 or 350, heat welded according to manufacturer's application instruction.

**Top Sheet:** Elastophene Flam GR, Sopralene Flam 180, 250 or 350 or Sopralene Antirock, heat welded according to manufacturer's application instruction.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. 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.

**Surfacing:** Exterior grade ceramic plaza deck walking tiles (Maximum size of 12" x 12" and minimum 1/2" thick), tiles shall be embedded into dry-set Portland Cement applied with a 1/4" 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:** -457.5 psf (See General Limitation #9)



NOA No.: 04-0927.08  
Expiration Date: 09/18/08  
Approval Date: 02/23/06  
Page 20 of 32

**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** Min. 2500 psi concrete or concrete plank.  
**System Type:** 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. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.

**Primer:** Elastocol 500 or ASTM D 41 primer applied to deck at a rate of 100-150 ft<sup>2</sup>/gal.

**Base Sheet:** One or more plies of Sopralene Flam 180 or 250, heat welded according to manufacturer's application instruction.

**Top Sheet:** Sopralene Flam 180, 250, 350 GR Sopralene Flam 180, 250, 350 FR GR, heat welded according to manufacturer's application instruction.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. 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:** (Optional) Min. 1.5" thick Dow Chemical STYROFOAM High Load 60 Insulation (Min. 60 psi) adhered to membrane with High Velocity Insulation Adhesive II applied in ¾" wide strips spaced 12" o.c. or hot asphalt is applied to the membrane at a rate of 20-40 lbs/100 ft<sup>2</sup> and allowed to cool to 225°-250°F before placement of extruded polystyrene boards.

**Surfacing:** Concrete pavers (24" x 24" x 1.5" thick), 4000 psi minimum shall be embedded into dry-set Portland Cement applied with a ¼" 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:** -340 psf (See General Limitation #9)



NOA No.: 04-0927.08  
Expiration Date: 09/18/08  
Approval Date: 02/23/06  
Page 21 of 32

**Deck Type 3I:** Concrete Decks, Insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type:** One or more layers of insulation adhered with approved adhesive

**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.

**Base Insulation:** Min 1.5" thick ASTM C578, Type I expanded Polystyrene applied in High Velocity Insulation Adhesive II in 3/4" diameter strips spaced 12" o.c.

**Base Layer:** One layer of Sopralene Flam Stick, EPS Flam Stick, Sopralene Stick, Colvent SA or Colvent 810 SA, self-adhered.

**Primer:** Elastocol 500, Elastocol 600c or Aquatac applied at a rate of 1 gal/sq.  
(Optional) Elastocol 500, Elastocol 600c or AquaTac applied at a rate of 1 gal/sq, to top surface of any base or ply sheet prior to application of next layer

**Ply Layer:** (Optional)  
One or more layers of Sopralene Flam Stick, EPS Flam Stick, Sopralene Stick or Colvent SA, self-adhered  
Or  
Elastophene Flam, Elastophene Flam FR, Elastophene Flam 2.2 mm, Elastophene Flam HS FR, Elastophene Flam HR 3.0 mm, Elastophene Flam HP, Elastophene SP, Elastophene 180 SP, Sopralene Flam 180, Sopralene Flam 180 2.7 mm, Sopralene 180 SP, Sopralene 180 SP 3.5 mm, Sopralene Flam 250, Sopralene 250 SP, Sopralene Flam 350, Sopralene 350 SP or Colvent TG, heat welded  
Or  
Elastophene Sanded, Elastophene Sanded FR, Elastophene Sanded 3.0 mm, Elastophene HR, Elastophene HR 3.0 mm, Elastophene HD, Elastophene HP, Elastophene PS, Elastophene 180 Sanded, Elastophene 180 PS, Sopralene 180 Sanded, Sopralene 180 Sanded 3.5 mm, Sopralene 180 PS, Sopralene 250 Sanded, Sopralene 250 Sanded 3.5 mm, Sopralene 250 PS, Sopralene 250 PS 2.7 mm, Sopralene 350 Sanded, Sopralene 350 PS, adhered in hot asphalt at 25 lbs/sq.



Top Layer: One layer of Colphene HR FR GR, Colphene FR GR, Sopralene Stick or Colphene SA GR, self-adhered

Or

Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam FR+ GR, Elastophene Flam HR FR GR, Elastophene Flam HS FR GR, Elastophene Flam HP FR GR, Sopralene 180 SP 3.5mm, Sopralene Flam 180 GR, Sopralene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene 250 SP, Sopralene Flam 250 GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene 350 SP, Sopralene Flam 350 GR, Sopralene Flam 350 FR GR, UNILAY, Sopralene Flam Jardin, Sopralene Mammoth GR, Sopralast 50 TV Alu, Sopralast Alu, Sopralast TV Copper, Sopralast Copper, Sopralast TV Inox or Sopralast Stainless Steel, heat welded

Or

Elastophene GR, Elastophene FR GR, Elastophene FR+ GR, Elastophene HD FR GR, Elastophene HR FR GR, Elastophene HS FR GR, Elastophene HP FR GR, Sopralene 180 Sanded, Sopralene 180 GR, Sopralene 180 FR GR, Sopralene 250 Sanded, Sopralene 250 GR, Sopralene 250 FR GR, Sopralene 350 Sanded, Sopralene 350 GR or Sopralene 350 FR GR, adhered in hot asphalt at 25 lbs/sq.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. 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: None

Maximum Design Pressure: -75 psf  
(See General Limitation #9.)



**Deck Type 3I:** Concrete Decks, Insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type:** Membranes adhered to primed substrate.

**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.

**Insulation:** Min 1.625" thick Sopraboard-C applied in High Velocity Insulation Adhesive-II in ¾" diameter strips spaced 12" o.c.

**Primer:** (Optional) Elastocol 500, Elastocol 600c or AquaTac applied at a rate of 1 gal/sq, to top surface of any insulation, base or ply sheet prior to application of next layer

**Base Layer:** One layer of Sopralene Flam Stick, EPS Flam Stick, Sopralene Stick, Colvent SA or Colvent 810 SA self-adhered

Or

One layer of Colvent TG, heat welded

**Ply Layer:** (Optional) One or more layers of Sopralene Flam Stick, EPS Flam Stick, Sopralene Stick or Colvent SA, self-adhered

Or

Elastophene Flam, Elastophene Flam FR, Elastophene Flam 2.2 mm, Elastophene Flam HS FR, Elastophene Flam HR 3.0 mm, Elastophene Flam HP, Elastophene SP, Elastophene 180 SP, Sopralene Flam 180, Sopralene Flam 180 2.7 mm, Sopralene 180 SP, Sopralene 180 SP 3.5 mm, Sopralene Flam 250, Sopralene 250 SP, Sopralene Flam 350, Sopralene 350 SP or Colvent TG, heat welded

Or

Elastophene Sanded, Elastophene Sanded FR, Elastophene Sanded 3.0 mm, Elastophene HR, Elastophene HR 3.0 mm, Elastophene HD, Elastophene HP, Elastophene PS, Elastophene 180 Sanded, Elastophene 180 PS, Sopralene 180 Sanded, Sopralene 180 Sanded 3.5 mm, Sopralene 180 PS, Sopralene 250 Sanded, Sopralene 250 Sanded 3.5 mm, Sopralene 250 PS, Sopralene 250 PS 2.7 mm, Sopralene 350 Sanded, Sopralene 350 PS, adhered in hot asphalt at 25 lbs/sq.



Top Layer: One layer of Colphene HR FR GR, Colphene FR GR, Sopralene Stick or Colphene SA GR, self-adhered

Or

Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam FR+ GR, Elastophene Flam HR FR GR, Elastophene Flam HS FR GR, Elastophene Flam HP FR GR, Sopralene 180 SP 3.5mm, Sopralene Flam 180 GR, Sopralene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene 250 SP, Sopralene Flam 250 GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene 350 SP, Sopralene Flam 350 GR, Sopralene Flam 350 FR GR, UNILAY, Sopralene Flam Jardin, Sopralene Mammoth GR, Sopralast 50 TV Alu, Sopralast Alu, Sopralast TV Copper, Sopralast Copper, Sopralast TV Inox or Sopralast Stainless Steel, heat welded

Or

Elastophene GR, Elastophene FR GR, Elastophene FR+ GR, Elastophene HD FR GR, Elastophene HR FR GR, Elastophene HS FR GR, Elastophene HP FR GR, Sopralene 180 Sanded, Sopralene 180 GR, Sopralene 180 FR GR, Sopralene 250 Sanded, Sopralene 250 GR, Sopralene 250 FR GR, Sopralene 350 Sanded, Sopralene 350 GR or Sopralene 350 FR GR, adhered in hot asphalt at 25 lbs/sq.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. 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: None

Maximum Design Pressure: -247.5 psf  
(See General Limitation #9.)



**Deck Type 3 or 3I:** Concrete Decks, Insulated or Non-Insulated, Roof Plaza Decks, Parking Decks

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type:** Membranes adhered to primed substrate.

**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 or ASTM D41 primer at an application rate of 100-150 ft<sup>2</sup>/gallon.

**Base Coat:** Apply ALSAN Base Coat at 20 wet mils (Approx. 1.25 gallon per square). Apply a single layer of Flash Fleece reinforcement into the wet Base Coat with minimum 3" wide overlaps. Immediately apply and second coat of ALAS Base Coat at 20 wet mils (Approx. 1.25 gallon per square). Wait a minimum two hours or maximum 12 hours prior to Finish Coat application.

**Top Coat:** Apply ALSAN Finish Coat at 15 wet mils (Approx. 0.9 gallons per square). Wait 45 minutes and apply Soprema ceramic granules, pressing them into the finish coat.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. 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.

**Insulation:** (Optional) One or more layers of ASTM C578, type VII extruded polystyrene insulation applied in High Velocity Insulation Adhesive II or III using a ribbon pattern with ½ to ¾ inch wide beads spaced 12" o.c. Insulation is immediately set into the wet adhesive and walked-in. Alternatively, asphalt is applied to the Top Ply membrane at a rate of 25 lbs/square and allowed to cool to 225°-250°F before placement of extruded polystyrene boards.

**Surfacing:** Concrete pavers (24" x 24" x 1½"), 4000 psi minimum or exterior grade ceramic plaza deck tiles (min. 12" x 12" x ½") embedded into dry-set Portland cement mortar or latex-Portland cement mortar complying with ANSI A118.1 or ANSI A118.4, respectively, applied with a ¼" square notched trowel. Tiles should then be carefully embedded in the mortar bed and taped in place to ensure full solid bearing. Tile shall be installed in accordance with applicable Building Code.

**Maximum Design Pressure:** -570 psf (for non-insulated)  
-277 psf (for insulated)  
(See General Limitation #9.)



**Deck Type 3:** Concrete Decks, Non-Insulated  
**Deck Description:** Min. 2500 psi, dual slab construction (roof plaza and parking decks)  
**System Type:** Membranes applied directly to 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. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.

**Primer:** Elastocol 500, 600c or ASTM D 41 primer applied to deck at a rate of 100-150 ft<sup>2</sup>/gal.

**Base Sheet:** One or more plies of Sopralene Flam 180 or 250, heat welded according to manufacturer's application instruction.

**Top Sheet:** Sopralene Flam 180, 250, 350 GR, Sopralene Flam 180, 250, 350 FR GR or Sopralene Antirock, heat welded according to manufacturer's application instruction.

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. 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:** (Optional) Min. 1.5" thick Dow Chemical STYROFOAM High Load 60 Insulation (Min. 60 psi) adhered to membrane with High Velocity Insulation Adhesive II applied in 3/4" wide strips spaced 12" o.c. or hot asphalt is applied to the membrane at a rate of 20-40 lbs/100 ft<sup>2</sup> and allowed to cool to 225°-250°F before placement of extruded polystyrene boards.

**Protection Board and/or Drainage Layer:** 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.)



NOA No.: 04-0927.08  
Expiration Date: 09/18/08  
Approval Date: 02/23/06  
Page 27 of 32

<b>Deck Type 3:</b>	Concrete Decks, Non-Insulated
<b>Deck Description:</b>	2500 psi structural concrete or concrete plank
<b>System Type:</b>	Membranes adhered to primed substrate.
<b>Substrate Preparation:</b>	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.
<b>Primer:</b>	Elastocol 500 or ASTM D41 primer at an application rate of 100-150 ft <sup>2</sup> /gallon.  (Optional) Elastocol 500, Elastocol 600c or AquaTac applied at a rate of 1 gal/sq, to top surface of any base or ply sheet prior to application of next layer
<b>Base Layer:</b>	One layer of Sopralene Flam Stick, EPS Flam Stick, Sopralene Stick, Colvent SA or Colvent 810 SA, self adhered
<b>Ply Layer:</b>	(Optional) One or more layers of Elastophene Sanded, Elastophene Sanded FR, Elastophene Sanded 3.0 mm, Elastophene HR, Elastophene HR 3.0 mm, Elastophene HD, Elastophene HP, Elastophene PS, Elastophene 180 Sanded, Elastophene 180 PS, Sopralene 180 Sanded, Sopralene 180 Sanded 3.5 mm, Sopralene 180 PS, Sopralene 250 Sanded, Sopralene 250 Sanded 3.5 mm, Sopralene 250 PS, Sopralene 250 PS 2.7 mm, Sopralene 350 Sanded, Sopralene 350 PS applied in asphalt at a rate of 25 lbs/sq
<b>Top Layer:</b>	One layer of Elastophene Sanded, Elastophene Sanded FR, Elastophene Sanded 3.0 mm, Elastophene HR, Elastophene HR 3.0 mm, Elastophene HD, Elastophene HP, Elastophene PS, Elastophene 180 Sanded, Elastophene 180 PS, Sopralene 180 Sanded, Sopralene 180 Sanded 3.5 mm, Sopralene 180 PS, Sopralene 250 Sanded, Sopralene 250 Sanded 3.5 mm, Sopralene 250 PS, Sopralene 250 PS 2.7 mm, Sopralene 350 Sanded, Sopralene 350 PS applied in hot asphalt at a rate of 25 lbs/sq.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957. Water may be maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	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.
<b>Surfacing:</b>	None
<b>Maximum Design Pressure:</b>	-240 psf  (See General Limitation #9.)



<b>Deck Type 3:</b>	Concrete Decks, Non-Insulated
<b>Deck Description:</b>	2500 psi structural concrete or concrete plank
<b>System Type:</b>	Membranes adhered to primed substrate.
<b>Substrate Preparation:</b>	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.
<b>Primer:</b>	Elastocol 500 or ASTM D41 primer at an application rate of 100-150 ft <sup>2</sup> /gallon.  (Optional) Elastocol 500, Elastocol 600c or AquaTac applied at a rate of 1 gal/sq, to top surface of any base or ply sheet prior to application of next layer
<b>Base Layer:</b>	One layer of Sopralene Flam Stick, EPS Flam Stick, Sopralene Stick, Colvent SA or Colvent 810 SA, self adhered
<b>Ply Layer:</b>	(Optional) One or more layers of Elastophene Sanded, Elastophene Sanded FR, Elastophene Sanded 3.0 mm, Elastophene HR, Elastophene HR 3.0 mm, Elastophene HD, Elastophene HP, Elastophene PS, Elastophene 180 Sanded, Elastophene 180 PS, Sopralene 180 Sanded, Sopralene 180 Sanded 3.5 mm, Sopralene 180 PS, Sopralene 250 Sanded, Sopralene 250 Sanded 3.5 mm, Sopralene 250 PS, Sopralene 250 PS 2.7 mm, Sopralene 350 Sanded, Sopralene 350 PS applied in asphalt at a rate of 25 lbs/sq
<b>Top Layer:</b>	One layer of Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam FR+ GR, Elastophene Flam HR FR GR, Elastophene Flam HS FR GR, Elastophene Flam HP FR GR, Sopralene 180 SP 3.5mm, Sopralene Flam 180 GR, Sopralene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene 250 SP, Sopralene Flam 250 GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene 350 SP, Sopralene Flam 350 GR, Sopralene Flam 350 FR GR, UNILAY, Sopralene Flam Jardin, Sopralene Mammoth GR, Sopralast 50 TV Alu, Sopralast Alu, Sopralast TV Copper, Sopralast Copper, Sopralast TV Inox or Sopralast Stainless Steel, heat welded.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957. Water may be maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	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.
<b>Surfacing:</b>	None
<b>Maximum Design Pressure:</b>	-270 psf  (See General Limitation #9.)



<b>Deck Type 3:</b>	Concrete Decks, Non-Insulated
<b>Deck Description:</b>	2500 psi structural concrete or concrete plank
<b>System Type:</b>	Membranes adhered to primed substrate.
<b>Substrate Preparation:</b>	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.
<b>Primer:</b>	Elastocol 500 or ASTM D41 primer at an application rate of 100-150 ft <sup>2</sup> /gallon.  (Optional) Elastocol 500, Elastocol 600c or AquaTac applied at a rate of 1 gal/sq, to top surface of any base or ply sheet prior to application of next layer
<b>Base Layer:</b>	One layer of Colvent TG is heat welded
<b>Ply Layer:</b>	(Optional) One or more layers of Elastophene Sanded, Elastophene Sanded FR, Elastophene Sanded 3.0 mm, Elastophene HR, Elastophene HR 3.0 mm, Elastophene HD, Elastophene HP, Elastophene PS, Elastophene 180 Sanded, Elastophene 180 PS, Sopralene 180 Sanded, Sopralene 180 Sanded 3.5 mm, Sopralene 180 PS, Sopralene 250 Sanded, Sopralene 250 Sanded 3.5 mm, Sopralene 250 PS, Sopralene 250 PS 2.7 mm, Sopralene 350 Sanded, Sopralene 350 PS applied in asphalt at a rate of 25 lbs/sq
<b>Top Layer:</b>	One layer of Elastophene GR, Elastophene FR GR, Elastophene FR+ GR, Elastophene HD FR GR, Elastophene HR FR GR, Elastophene HS FR GR, Elastophene HP FR GR, Sopralene 180 Sanded, Sopralene 180 GR, Sopralene 180 FR GR, Sopralene 250 Sanded, Sopralene 250 GR, Sopralene 250 FR GR, Sopralene 350 Sanded, Sopralene 350 GR or Sopralene 350 FR GR applied in asphalt at a rate of 25 lbs/sq
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957. Water may be maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	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.
<b>Surfacing:</b>	None
<b>Maximum Design Pressure:</b>	-262.5 psf  (See General Limitation #9.)



**Deck Type 3:** Concrete Decks, Non-Insulated

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type:** Membranes adhered to primed substrate.

**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 or ASTM D41 primer at an application rate of 100-150 ft<sup>2</sup>/gallon.  
(Optional) Elastocol 500, Elastocol 600c or AquaTac applied at a rate of 1 gal/sq, to top surface of any base or ply sheet prior to application of next layer

**Base Layer:** One layer of Colvent TG is heat welded

**Ply Layer:** (Optional) One or more layers of Elastophene Flam, Elastophene Flam FR, Elastophene Flam 2.2 mm, Elastophene Flam HS FR, Elastophene Flam HR 3.0 mm, Elastophene Flam HP, Elastophene SP, Elastophene 180 SP, Sopralene Flam 180, Sopralene Flam 180 2.7 mm, Sopralene 180 SP, Sopralene 180 SP 3.5 mm, Sopralene Flam 250, Sopralene 250 SP, Sopralene Flam 350, Sopralene 350 SP or Colvent TG is heat welded

**Top Layer:** One layer Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam FR+ GR, Elastophene Flam HR FR GR, Elastophene Flam HS FR GR, Elastophene Flam HP FR GR, Sopralene 180 SP 3.5mm, Sopralene Flam 180 GR, Sopralene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene 250 SP, Sopralene Flam 250 GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene 350 SP, Sopralene Flam 350 GR, Sopralene Flam 350 FR GR, UNILAY, Sopralene Flam Jardin, Sopralene Mammoth GR, Sopralast 50 TV Alu, Sopralast Alu, Sopralast TV Copper, Sopralast Copper, Sopralast TV Inox or Sopralast Stainless Steel is heat welded

**Integrity Test:** Required, and shall be performed in accordance with ASTM D 5957. 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:** None

**Maximum Design Pressure:** -292.5 psf  
(See General Limitation #9.)



## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
- 10 All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

**END OF THIS ACCEPTANCE**



NOA No.: 04-0927.08  
Expiration Date: 09/18/08  
Approval Date: 02/23/06  
Page 32 of 32