



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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www.miamidade.gov/economy

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 Self-Adhered Modified Bitumen Roofing Systems over Wood Decks.

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

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

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

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

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

This NOA revises NOA No. 13-0205.06 and consists of pages 1 through 26.

The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 14-0603.16
Expiration Date: 03/01/16
Approval Date: 02/05/15
Page 1 of 26

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Material: SBS
Deck Type: Wood
Maximum Design Pressure: -105 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Sopra G	39" x 108' (3.5 sq.)	ASTM D4601	Fiberglass reinforced oxidized asphalt base sheet for bonding or mechanically attaching to substrate. For use as a base/ply sheet only.
Soprabase	39" x 99' (3 sq.)	ASTM D4601	Oxidized asphalt, polyester reinforced, sand-surfaced 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.
Colvent SA	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied self-adhering strips on back side
Elastophene Flam 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 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.
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 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).
Sopralene 250 Ultra 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).



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Colphene 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).
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).
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).
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 180 Ultra 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 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 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).
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).

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Sopralene 180 Ultra 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 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 3.5	39" x 33' (1sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane with a plastic burn-off film on the bottom and colored granules on top. Applied by heat welding or ribbon stripping.
Sopralene Flam 180 FR GR 3.5	39" x 33' (1sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and colored granules on top. Applied by heat welding or ribbon stripping.
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 Flam 250 Ultra 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 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 Flam Antirock	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.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Sopralast 50 TV Alu	Various	ASTM D6298	Fiberglass reinforced modified bitumen sheeting faced with aluminum foil. Applied by heat welding of ribbon stripping (after removal of plastic burn-off film).
Sopralast 50 TV Alu Sanded	Various	ASTM D6298	Fiberglass reinforced modified bitumen sheeting faced with aluminum foil. Applied by heat welding of ribbon stripping (after removal of plastic burn-off film).
Soprapstar Flam	39" x 33' (1 sq.)	ASTM D6162	Polyester reinforced SBS modified bitumen membrane with a plastic burn-off film on the bottom side and a reflective white top surface. Applied by heat welding.
Elastophene Stick	39" x 49' (1.5 sq.)	ASTM D6163	Self-adhered, sanded surfaced, fiberglass reinforced membranes.
Elastophene Flam Stick	39" x 49' (1.5 sq.)	ASTM D6163	Self-adhered, sanded surfaced, fiberglass reinforced membranes.
Sopralene Flam Stick	39" x 49' (1.5 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top.
Soprafix Cap FR-651	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.
Soprapstar Sanded	39" x 33' (1 sq.)	ASTM D6162	Stabilized polyester mat reinforced SBS modified bitumen membrane with a sanded bottom side and a reflective white top surface. Applied by hot asphalt or cold adhesive.
Elastophene 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 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 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 SP 2.2	39" x 49' (1.5 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).

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Colphene SP 2.2	39" x 49' (1.5 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).
Elastophene SP 3.0	39" x 49' (1 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).
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.
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).
SopraSTAR Stick	39" x 33' (1 sq.)	ASTM D6162	Polyester reinforced SBS modified bitumen membrane with a release film covered self-adhering bottom side and a reflective white top surface.
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.
Soprafix Base 621	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded surface. Applied by mechanical attachment.
Soprafix	39" x 33' (1 sq.)	ASTM D6164	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 Base 622	39" x 33' (1 sq.)	ASTM D6164	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.

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Elastophene Stick FR GR	39" x 33' (1 sq.)	ASTM D6163	Self-adhered, granule surfaced, fiberglass reinforced membranes.
Colphene FR GR	39" x 33' (1 sq.)	ASTM D6163	Self-adhered, granule surfaced, fiberglass reinforced membranes.
Elastophene Stick HR FR GR	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, granule surfaced, polyester reinforced membranes.
Colphene HR FR GR	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, granule surfaced, polyester reinforced membranes.
Elastocol 500	Various	ASTM D41	Asphalt primer.
Elastocol Stick	Various	ASTM D41	Asphalt primer.
Elastocol Stick Zero	Various	ASTM D41	Asphalt primer.
ALSAN Flashing™	1.25 gallon pail or 3.75 gallon pail	Proprietary	One part polyurethane/bitumen resin, moisture cure compound.
ALSAN Polyfleece	4", 8" or 39" wide by 50' long	Proprietary	Non-woven polyester reinforcement used in the ALSAN Flashing system.
COLPLY Flashing Cement	5 gallon pail	Proprietary	Elastomeric bitumen based mastic compound.
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.
High Velocity® Insulation Adhesive III (HVIA-III)	4 dual cartridges per carton	Proprietary	Two part elastomeric urethane foam adhesive.
High Velocity® Insulation Adhesive III – Green	4 dual cartridges per carton	Proprietary	Two part elastomeric urethane foam adhesive.
High Velocity Insulation Adhesive PG	5 gal. or 50 gal.	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.
Duotack	5, 50 gallon pail	Proprietary	Two part elastomeric urethane foam adhesive.
Duotack Neo	5, 50 gallon pail	Proprietary	Two part polyurethane foam adhesive.
FM Adhesive (VOC)	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Elastomeric bitumen based cold adhesive.

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
COLPLY Adhesive	5 gallon pail or 55 gallon drum	Proprietary	Polymer modified cold process membrane adhesive.
COLPLY Modified Adhesive	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Elastomeric bitumen based cold adhesive.
COLPLY EF Adhesive	5 gallon pail	Proprietary	Solvent free, polymeric adhesive.
Soprastar Adhesive	5 gallon pail or 55 gallon drum	Proprietary	SBS modified bitumen based cold adhesive.

APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
Sopra-ISO+ s	Polyisocyanurate foam insulation	Soprema, Inc.
Sopra-ISO s	Polyisocyanurate foam insulation	Soprema, Inc.
Sopra-ISO+ r	Polyisocyanurate foam insulation	Soprema, Inc.
Sopra-ISO r	Polyisocyanurate foam insulation	Soprema, Inc.
M-Shield	Polyisocyanurate foam insulation	Soprema, Inc.
Sopra-ISO x	Polyisocyanurate foam insulation	Soprema, Inc.
Sopraboard	Mineral fortified asphaltic cored coverboard between two layers of asphalt saturated fiberglass mat.	Soprema, Inc.
DensDeck	Water resistant gypsum board	Georgia Pacific Gypsum LLC
DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	USG Corp.
STYROFOAM PLAZAMATE	Extruded polystyrene insulation	The Dow Chemical Company
STYROFOAM ROOFMATE	Extruded polystyrene insulation	The Dow Chemical Company
ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ENRGY 3 FR	Polyisocyanurate foam insulation	Johns Manville Corp.
ENRGY 3 AGF	Polyisocyanurate foam insulation	Johns Manville Corp.
ENRGY 3 CGF	Polyisocyanurate foam insulation	Johns Manville Corp.
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville Corp.
Fesco Board HD	Expanded mineral fiber insulation	Johns Manville Corp.
Fesco Board	Polyisocyanurate foam insulation	Johns Manville
Retro-Fit Board	Polyisocyanurate foam insulation	Johns Manville
DuraBoard	Polyisocyanurate foam insulation	Johns Manville



APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Invinsa Roof Board	Polyisocyanurate foam insulation	Johns Manville
Invinsa FR Roof Board	Polyisocyanurate foam insulation	Johns Manville
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
H-Shield CG	Polyisocyanurate foam insulation	Hunter Panels, LLC
SopraRock MD	Rigid mineral wool board insulation	Roxul, Inc.
SopraRock MD Plus	Rigid mineral wool board insulation	Roxul, Inc.
SopraRock DD	Rigid mineral wool board insulation	Roxul, Inc.
SopraRock DD Plus	Rigid mineral wool board insulation	Roxul, Inc.
Insulfoam SP	Expanded polystyrene insulation	Insulfoam a div. of Carlisle Construction Materials Inc.
Insulfoam EPS	Expanded polystyrene insulation	Insulfoam a div. of Carlisle Construction Materials Inc.
R-TECH	Expanded polystyrene insulation	Insulfoam a div. of Carlisle Construction Materials Inc.
R-TECH Fan Fold	Expanded polystyrene insulation	Insulfoam a div. of Carlisle Construction Materials Inc.
EnergyGuard Polyiso Insulation	Composite polyisocyanurate insulation	GAF
EnergyGuard Ultra Polyiso Insulation	Composite polyisocyanurate insulation	GAF
EnergyGuard HD Polyiso Insulation	Composite polyisocyanurate insulation	GAF
EnergyGuard HD Plus Polyiso Insulation	Composite polyisocyanurate insulation	GAF
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax Operating, LLC
Structodek High Density Fiberboard Roof Insulation	High Density wood fiber insulation board	Blue Ridge Fiberboard, Inc.
GreenGuard-CM	Extruded Polystyrene insulation board	Pactiv Building Products
GreenGuard-PB6	Extruded Polystyrene insulation board	Pactiv Building Products
GreenGuard-PB6W	Extruded Polystyrene insulation board	Pactiv Building Products
GreenGuard-PB6 PLUS	Extruded Polystyrene insulation board	Pactiv Building Products
GreenGuard-PB6FA	Extruded Polystyrene insulation board	Pactiv Building Products
GreenGuard-PB38FA	Extruded Polystyrene insulation board	Pactiv Building Products
GreenGuard-PB6FA90	Extruded Polystyrene insulation board	Pactiv Building Products



APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Trufast #14 HD Fastener	Insulation fastener for wood, steel and concrete.	Various	Altenloh, Brinck & Co. U.S., Inc.
2.	Trufast 3" Metal Insulation Plate	Galvalume AZ50 steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
3.	Soprema #14 MP Fastener	Fasteners for membrane or insulation attachment to wood, steel or concrete decks.	Various	Soprema, Inc.
4.	Soprema 3" Metal Insulation Plate	Insulation and membrane fasteners	3" round	Soprema, Inc.
5.	Trufast 2" Barbed Metal Seam Plate	Stress plate	2" diameter	Altenloh, Brinck & Co. U.S., Inc.
6.	Soprafix 2" Seam Plate	Stress plate	2" diameter	Soprema, Inc.
7.	Simplex MAXX Cap	Stress plate	3" diameter	Simplex Nails, Inc.

APPROVED SURFACING/COATING OPTIONS:

TABLE 4

Chosen components must be applied according to manufacturer’s application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

System Number	Manufacturer	Application
1.	Generic	Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.
2.	Soprema, Inc.	Gravel applied at 400 lbs./sq., adhered with FM Adhesive, FM Adhesive (VOC), COLPLY Adhesive, COLPLY EF Adhesive, COLPLY Modified Adhesive or Soprapstar Adhesive at 4 gal./sq.
3.	Karnak Corporation	Karnak #97 Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal./sq.
4.	Soprema, Inc.	Cural Aluminizer applied at an application rate of 2 gal./sq.
5.	Thermo Manufacturing Systems, LLC	Super Prep Roof Coating applied in two coats at an application rate of 1.5 gal./sq./coat.
6.	United Coatings Manufacturing Company	Roof Mate Coating, applied in one base coat at a rate of 1.5 gal./sq. and one finish coat at a rate of 1.5 gal./sq.
7.	Insulating Coatings Corporation	Astec 2000 Finish Coat applied in two base coats at a rate of 0.75 gal./sq./coat and two finish coats at a rate of 0.75 gal./sq./coat.
8.	Henry Company	HE280DC White Elastomeric Roof Coating applied in two coats at an application rate of 1 gal./sq./coat.
9.	National Coating Corp.	Acryshield® A500 applied in two coats at an application rate of 1 gal./sq./coat.
10.	Soprema, Inc.	R-Nova Roof Coating.
11.	Generic	Semi-ceramic coated colored granules.



EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corp.	3029098	FM 4470	10/25/07
	3047439	FM 4470	07/22/13
	3045101	FM 4470	11/05/12
	3046765	FM 4470	02/15/13
	3002351	FM 4470	02/28/03
	3036182	FM 4470	07/31/09
	3024311	FM 4470	11/01/06
Exterior Research & Design, LLC.	3045734	FM 4470	04/04/12
	2757.02.05	ASTM D6163/D6164	02/03/05
	2778.07.05	TAS 114	07/15/05
	2761.09.03	TAS 114	09/02/03
	2774.04.05	TAS 114	04/01/05
Underwriters Laboratories Trinity ERD	R11436	UL 790	06/18/13
	S12370.03.09-1	ASTM D 6164	03/06/09
	S12370.03.09-2	ASTM D 6164	03/06/09
	S12370.03.09-3	ASTM D 6162	03/06/09
	S11440.11.10-4	ASTM D2178	11/17/10
	S11440.11.10-3-R2	ASTM D4601	08/26/14
	S11440.12.10-1-R1	ASTM D6163	06/07/12
	S32700.12.10-R2	ASTM D6162	07/07/14
	S35860.12.11-1	ASTM D2178	12/12/11
	S35860.12.11-2	ASTM D4601	12/12/11
	S35860.05.12-1-R2	ASTM D6163	03/14/13
	S35860.05.12-2-R3	ASTM D6164	08/29/14
	S35860.05.12-3-R1	ASTM D6164	03/14/13
	S32840.06.10	TAS 117	06/22/10
	S2000.02.13	TAS 114	02/01/13
	S39320.01.12-R1	FM 4474/TAS 114	05/24/12
	S45070.08.13	FM 4474/TAS 114	08/13/13
	7075.11.14-R1	FM 4474/TAS 114	01/15/15
	S43210.11.14	ASTM D1876	11/10/14
	S44110.09.14-3	ASTM D6163	09/08/14
	S44110.08.14-5	ASTM D6164	08/29/14
	S43400.08.14-5	ASTM D6163	08/26/14
	S43400.08.14-6	ASTM D6164	08/26/14
	S43400.08.14-7	ASTM D6164	08/08/14
	S43400.09.14-9	ASTM D6164	09/02/14
	S43400.09.14-10	ASTM D6298	09/08/14
	S44110.09.14-7C	ASTM D6164	09/02/14
PRI Construction Materials Technologies, LLC	SOP-049-02-01	ASTM D1644/D2196	05/31/12
	SOP-043-02-01	ASTM D4601	02/27/12
	SOP-042-02-01	ASTM D4601	02/27/12
	SOP-041-02-01	ASTM D2178	02/27/12
	SOP-040-02-01	ASTM D2178	02/27/12
	SOP-010-02-01.03	TAS-138	07/26/11
	SOP-050-02-01	ASTM D3019	07/12/12



APPROVED ASSEMBLIES:

- Membrane:** SBS
- Deck Type II:** Wood, Insulated
- Deck Description:** 19/32” or greater plywood or wood plank
- System Type A:** Anchor sheet mechanically fastened, all layers of insulation adhered with approved asphalt or adhesive.

All General and System Limitations apply.

- Slip Sheet:** One or more plies of approved ASTM D4601 applied loose laid to deck prior to the attachment of vapor retarder.
- (Optional)**
- Anchor Sheet:** One layer Sopra G, Soprabase, Soprabase S, mechanically attached with FBC HVHZ nails and tin-caps spaced 6” o.c. in a 4” wide side lab and 6” o.c. in three evenly spaced rows in the field of the sheet.

One or more layers of the following.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
DensDeck Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft², or in Soprema High Velocity® Insulation Adhesive III (HVIA-III), High Velocity® Insulation Adhesive III –Green or High Velocity® Insulation Adhesive PG, Duotack, Duotack Neo, Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation adhesive in ¾” wide ribbons, Insta-Stik adhesive in 1” wide ribbons, TITASET Roofing Adhesive, 3M Polyurethane Foam Insulation Adhesive CR-20 or FasTac in 3” wide ribbons, spaced 6” o.c. (Adhesive is applied atop fastener rows). Please refer to Roofing Application Standard RAS 117 for insulation attachment.

- Primer:** Elastocol 500 applied at a rate of 1 gal./sq. to DensDeck prior to base membrane application.
- Base Sheet:** One layer of Colvent SA, self-adhered.
- Ply Sheet:** None
- Membrane:** Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Sopralene Flam 180 Ultra FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralane Flam Antirock, torch-applied.
- Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
- Maximum Design Pressure:** -60 psf. (See General Limitation #7.)



Membrane: SBS
Deck Type II: Wood, Insulated
Deck Description: 19/32" or greater plywood or wood plank
System Type C: All layers of insulation simultaneously attached.
All General and System Limitations apply.
Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.
(Optional)

One or more layers of the following.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck		
Minimum 1/4" thick	1, 2, 3, 4	1:1.6 ft²

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. (See Roofing Application Standard RAS 117 for fastening details.)

Primer: Elastocol 500 applied at a rate of 1 gal./sq. to DensDeck prior to base membrane application.

Base Sheet: One layer Colvent SA, Sopralene Stick or Colphene Stick, self-adhered.

Ply Sheet: None

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Sopralene Flam 180 Ultra FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied.

Or

Soprastar Stick, Elastophene Stick HR FR GR, Colphene HR FR GR, Elastophene Stick FR GR or Colphene FR GR, self-adhered to sand surfaced base or ply membrane primed with Elastocol 500, Elastocol Stick or Elastocol Stick Zero.

Or

(Only with Sopralene Stick and Colphene Stick) Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Sopralene 180 Ultra FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Sopralene 250 Ultra FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded, adhered in hot asphalt at 25 lbs./sq. or applied in FM Adhesive, FM Adhesive (VOC), COLPLY Adhesive, COLPLY Modified Adhesive or Soprastar Adhesive at a rate of 1.5 gal./sq. to sand surfaced base or ply membrane.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes.

Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7.)



Membrane Type: SBS
Deck Type II: Wood, Insulated
Deck Description: Min. 19/32" plywood or wood plank
System Type D: All layers of insulation and base sheet simultaneously attached.
Deck: Decking is attached to spans spaced maximum 24" o.c. with SPAX No. 10 x 2½" screws spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.
(Optional)

One or more layers of any of the following insulations.

Insulation Layer(s):	Insulation Fasteners (Table 3)	Fastener Density/ft²
SopraRock DD, SopraRock DD Plus Maximum 2" thick	N/A	N/A
STYROFOAM PLAZAMATE Min. 1.5" thick	N/A	N/A
ACFoam-III, Sopra-ISO+ s Min. 1.3" thick	N/A	N/A
ENRGY 3 FR, ENRGY 3 AGF, ENRGY 3 CGF, H-Shield CG, Sopra-Iso+ r (flat or tapered), Fesco Board HD, SopraRock MD, SopraRock MD Plus, GreenGuard-CM, STYROFOAM ROOFMATE, Insulfoam SP (Type IX) Min. 1" thick	N/A	N/A
ACFoam-II, Sopra-ISO s, EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation, ENRGY 3, H-Shield, Sopra-ISO r, M-Shield, Multi-Max FA-3, Sopra-ISO x (flat or tapered), Insulfoam EPS (Type IX), R-TECH (Type IX), R-TECH Fan Fold (Type IX), Retro-Fit Board, DuraBoard, Structodek High Density Fiberboard Roof Insulation Min. 0.5" thick	N/A	N/A
Fesco Board (flat or tapered) Homogeneous: Minimum 0.75" thick Laminated: Minimum 1.5" thick	N/A	N/A
GreenGuard-PB6, GreenGuard-PB6W, GreenGuard-PB6 PLUS, GreenGuard-PB6FA, GreenGuard-PB38FA, GreenGuard-PB6FA90 Minimum 0.375" thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, Invinsa Roof Board, Invinsa FR Roof Board Minimum 0.25" thick	N/A	N/A
Sopraboard Minimum 0.125" thick	N/A	N/A

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.



- Base Sheet:** One ply of Soprafix Base 621, Soprafix or Soprafix Base 622 fastened to the deck as described below:
- Fastening:** Soprema #14 MP Fasteners, Trufast #14 HD Fasteners with Soprafix 2” Seam Plates, Trufast 2” Barbed Metal Seam Plates spaced 6” o.c. within the minimum 4” wide, hot-air welded side laps.
- Primer:** Elastocol Stick Zero to base sheet at 1.0 gal/square.
- Membrane:** Soprapstar Stick, Elastophene Stick FR GR, Elastophene Stick HR FR GR, Colphene HR FR GR, self-adhered.
- Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
- Maximum Design Pressure:** -82.5 psf. (See General Limitation #7)

Membrane Type: SBS
Deck Type II: Wood, Non-Insulated
Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank
System Type E(1): Non-Insulated, Base sheet mechanically attached.
Deck: Decking is attached to spans spaced maximum 24" o.c. with 8d ring shank nails spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

(Optional)

Base Sheet: Soprabase fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 9" o.c. at the minimum 2" wide side laps and 12" o.c. in two (2), equally spaced, staggered center rows.

Primer: Elastocol Stick Zero to base sheet at 1.0 gal/square.

Ply Sheet: Elastophene Stick, Sopralene Stick, Colphene Stick, Elastophene Flam Stick*, Sopralene Flam Stick*, self-adhered.

*Requires torch-applied Cap

Membrane: SopraStar Flam, Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR GR, Elastophene Flam FR+ GR, Soprafix Cap FR 651, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam Ultra FR GR, Sopralene Flam Antirock, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam 250 Ultra FR GR, Sopralast 50 TV ALU, torch-applied.

Or

SopraStar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV ALU Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)



Membrane Type: SBS
Deck Type II: Wood, Non-Insulated
Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank
System Type E(2): Non-Insulated, Base sheet mechanically attached.
Deck: Decking is attached to spans spaced maximum 24" o.c. with 8d ring shank nails spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.
(Optional)
Base Sheet: Soprabase fastened to the deck as described below:
Fastening: Simplex MAXX Cap Fasteners spaced 9" o.c. at the minimum 2" wide side laps and 12" o.c. in two (2), equally spaced, staggered center rows.
Primer: Elastocol Stick Zero to Base Sheet at 1.0 gal/square.
Ply Sheet: Elastophene Stick, Sopralene Stick, Colphene Stick, self-adhered.
(Optional)
Primer: Elastocol Stick Zero to Base Ply at 1.0 gal/square.
Membrane: Soprapstar Stick, Elastophene Stick FR GR, Elastophene Stick HR FR GR, Colphene HR FR GR, self-adhered.
Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure: -52.5 psf. (See General Limitation #7)

Membrane Type: SBS

Deck Type II: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(3): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with 8d ring shank nails spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.
(Optional)

Base Sheet: Sopra 4897 or Soprabase TG fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 9" o.c. at the minimum 2" wide side laps and 12" o.c. in two (2), equally spaced, staggered center rows.

Ply Sheet: Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, torch-applied.

Primer: Elastocol Stick Zero to Base Ply at 1.0 gal/square.

Membrane: Soprastar Stick, Elastophene Stick FR GR, Elastophene Stick HR FR GR, Colphene HR FR GR, self-adhered.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)



Membrane Type: SBS

Deck Type II: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood or wood plank

System Type E(4): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with SPAX No. 10 x 2½" screws spaced maximum 6" o.c.

All General and System Limitations apply.

**Slip Sheet:
(Optional)** One or more plies of approved ASTM D4601 applied loose laid to deck.

Base Sheet: One ply of Soprafix Base 621, Soprafix or Soprafix Base 622 fastened to the deck as described below:

Fastening: Soprema #14 MP Fasteners, Trufast #14 HD Fasteners with Soprafix 2-inch Seam Plates, Trufast 2" Barbed Metal Seam Plates spaced 6" o.c. within the minimum 4" wide, hot-air welded side laps.

Primer: Elastocol Stick Zero to base sheet at 1.0 gal/square.

Membrane: Soprapstar Stick, Elastophene Stick FR GR, Elastophene Stick HR FR GR, Colphene HR FR GR, self-adhered.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes.
Surfacing is Required for smooth or sanded surfaced field cap membranes.
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -82.5 psf. (See General Limitation #7)



Membrane Type: SBS
Deck Type II: Wood, Non-Insulated
Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank
System Type E(5): Non-Insulated, Base sheet mechanically attached.
Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

(Optional)

Base Sheet: Soprabase fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps and 6" o.c. in two (2), equally spaced, staggered center rows.

Primer: Elastocol Stick Zero to base sheet at 1.0 gal/square.

Ply Sheet: Elastophene Stick, Sopralene Stick, Colphene Stick, Elastophene Flam Stick*, Sopralene Flam Stick*, self-adhered.

*Requires torch-applied Cap

Membrane: SopraStar Flam, Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR GR, Elastophene Flam FR+ GR, Soprafix Cap FR 651, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam Ultra FR GR, Sopralene Flam Antirock, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam 250 Ultra FR GR, Sopralast 50 TV ALU, torch-applied.

Or

SopraStar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV ALU Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -90 psf. (See General Limitation #7)



Membrane Type: SBS

Deck Type II: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(6): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.
(Optional)

Base Sheet: Soprabase fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps and 6" o.c. in two (2), equally spaced, staggered center rows.

Primer: Elastocol Stick Zero to Base Sheet at 1.0 gal/square.

Ply Sheet: Elastophene Stick, Sopralene Stick, Colphene Stick, self-adhered.
(Optional)

Primer: Elastocol Stick Zero to Base Ply at 1.0 gal/square.

Membrane: Soprapstar Stick, Elastophene Stick FR GR, Elastophene Stick HR FR GR, Colphene HR FR GR, self-adhered.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -90 psf. (See General Limitation #7)

Membrane Type: SBS

Deck Type II: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(7): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.
(Optional)

Base Sheet: Sopra 4897 or Soprabase TG fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps and 6" o.c. in two (2), equally spaced, staggered center rows.

Ply Sheet: Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, torch-applied.

Primer: Elastocol Stick Zero to Base Ply at 1.0 gal/square.

Membrane: Soprastar Stick, Elastophene Stick FR GR, Elastophene Stick HR FR GR, Colphene HR FR GR, self-adhered.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -90 psf. (See General Limitation #7)



Membrane Type: SBS
Deck Type II: Wood, Non-Insulated
Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank
System Type E(8): Non-Insulated, Base sheet mechanically attached.
Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws spaced maximum 4" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.

(Optional)

Base Sheet: Soprabase fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps and 6" o.c. in three (3), equally spaced, staggered center rows.

Primer: Elastocol Stick Zero to base sheet at 1.0 gal/square.

Ply Sheet: Elastophene Stick, Sopralene Stick, Colphene Stick, Elastophene Flam Stick*, Sopralene Flam Stick*, self-adhered.

*Requires torch-applied Cap

Membrane: Sopraplast Flam, Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR GR, Elastophene Flam FR+ GR, Soprafix Cap FR 651, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam Ultra FR GR, Sopralene Flam Antirock, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam 250 Ultra FR GR, Sopralast 50 TV ALU, torch-applied.

Or

Sopraplast Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 FR+ GR, Sopralene 250 Ultra FR GR, Sopralast 50 TV ALU Sanded applied in hot asphalt.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -105 psf. (See General Limitation #7)

Membrane Type: SBS

Deck Type II: Wood, Non-Insulated

Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank

System Type E(9): Non-Insulated, Base sheet mechanically attached.

Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws spaced maximum 4" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.
(Optional)

Base Sheet: Soprabase fastened to the deck as described below:

Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps and 6" o.c. in three (3), equally spaced, staggered center rows.

Primer: Elastocol Stick Zero to Base Sheet at 1.0 gal/square.

Ply Sheet: Elastophene Stick, Sopralene Stick, Colphene Stick, self-adhered.
(Optional)

Primer: Elastocol Stick Zero to Base Ply at 1.0 gal/square.

Membrane: Soprapstar Stick, Elastophene Stick FR GR, Elastophene Stick HR FR GR, Colphene HR FR GR, self-adhered.

Surfacing: Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

Maximum Design Pressure: -105 psf. (See General Limitation #7)

Membrane Type: SBS
Deck Type II: Wood, Non-Insulated
Deck Description: Min. 19/32" plywood (15/32" for re-roof) or wood plank
System Type E(10): Non-Insulated, Base sheet mechanically attached.
Deck: Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws spaced maximum 4" o.c.

All General and System Limitations apply.

Slip Sheet: One or more plies of approved ASTM D4601 applied loose laid to deck.
(Optional)
Base Sheet: Sopra 4897 or Soprabase TG fastened to the deck as described below:
Fastening: Simplex MAXX Cap Fasteners spaced 6" o.c. at the minimum 2" wide side laps and 6" o.c. in three (3), equally spaced, staggered center rows.
Ply Sheet: Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, torch-applied.
Primer: Elastocol Stick Zero to Base Ply at 1.0 gal/square.
Membrane: Soprastar Stick, Elastophene Stick FR GR, Elastophene Stick HR FR GR, Colphene HR FR GR, self-adhered.
Surfacing: Surfacing is Optional on granular surfaced field cap membranes. Surfacing is Required for smooth or sanded surfaced field cap membranes. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications. Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
Maximum Design Pressure: -105 psf. (See General Limitation #7)



WOOD DECK SYSTEM LIMITATIONS:

1. A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

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 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 14-0603.16
Expiration Date: 03/01/16
Approval Date: 02/05/15
Page 26 of 26