



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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**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 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. 11-0119.07 and consists of pages 1 through 56.  
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 14-0603.10  
Expiration Date: 03/01/16  
Approval Date: 01/22/15  
Page 1 of 56

## 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. <b>For use as a base/ply sheet only.</b>
Modified Sopra G	39" x 108' (3.5 sq.)	ASTM D4601	Fiberglass reinforced modified asphalt base sheet for bonding or mechanically attaching to substrate. <b>For use as a base/ply sheet only.</b>
Soprabase	39" x 99' (3 sq.)	ASTM D4601	Oxidized asphalt, polyester reinforced, sand-surfaced base sheet. <b>For use as a base/ply sheet only.</b>
Soprabase S	39" x 65' (2 sq.)	ASTM D4601	SBS modified bitumen, polyester reinforced, sand-surfaced base sheet. <b>For use as a base/ply sheet only.</b>
Soprabase TG	39" x 65' (2 sq.)	ASTM D4601	SBS modified bitumen, polyester reinforced, film-surfaced base sheet. <b>For use as a base/ply sheet only.</b>
Sopra IV	36" x 180' (5 sq.)	ASTM D2178 Type IV	Type IV fiberglass reinforced, smooth surfaced plysheet used in multi-ply systems and complies with ASTM and UL Standards. Applied in hot asphalt or cold adhesive.
Sopra VI	36" x 180' (5 sq.)	ASTM D2178 Type VI	Type VI fiberglass reinforced, smooth surfaced plysheet. Sopra IV or VI are used in multi-ply systems and complies with ASTM and UL Standards. Applied in hot asphalt or cold adhesive.
Colvent TG	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied heat weldable strips on back side.
Colvent 180 TG	39" x 33' (1 sq.)	ASTM D6164	Polyester reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side.
Colvent Flam 180 TG	39" x 33' (1 sq.)	ASTM D6164	Polyester reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side.



<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
Colvent Flam TG	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side and a plastic burn-off film surface.
Elastophene Sanded	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Colphene Sanded	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene Sanded 3.0	39" x 33' (1sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripped.
Elastophene HS	39" x 66' (2 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants and sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene PS	39" x 49' (1.5 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film for heat weld bonding to the top side. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene PS 3.0	39" x 49' (1.5 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film for heat weld bonding to the top side. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene SP 2.2	39" x 49' (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).
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).

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Colphene 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).
Elastophene Flam	39" x 33' (1 sq.)	ASTM D6163	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' (1.5 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Elastophene Flam HS	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 HS 62	39" x 33' (1 sq.)	ASTM D6162	Woven fiberglass/polyester composite reinforced modified bitumen membrane with sanded surface on both sides. Applied in hot asphalt, cold adhesive.
Elastophene 180 Sanded	39" x 49' (1.5 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Colphene 180 Sanded	39" x 49' (1.5 sq.)	ASTM D6164	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 49' (1.5 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Colphene 180 PS	39" x 49' (1.5 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene 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.

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Elastophene LS FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene FR+ GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene Flam 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 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.
Sopralene 180 Sanded	39" x 33' (1 sq.) 39" x 26' (¾ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Sopralene 250 Sanded	39" x 33' (1 sq.) 39" x 26' (¾ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Sopralene 180 Sanded 2.2	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt or cold adhesive.
Sopralene 180 PS	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the top and sanded on the bottom.
Sopralene 180 PS 2.2	39" x 49' (1.5 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.

<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
Sopralene 180 SP 3.5	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene 180 SP 3.5	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene 180 SP 3.0	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top
Sopralene 250 SP	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top
Soprafix Base 610	39" x 30' (1 sq.)	ASTM D6162	Composite reinforced modified bitumen membrane with a film surface. Applied by mechanical attachment.
Soprafix Base 611	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a film surface. Applied by mechanical attachment.
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 Base 630	39" x 33' (1 sq.)	ASTM D6162	Composite reinforced modified membrane with a film surface. Applied by mechanical attachment.
Soprafix [S]	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Soprafix Base 612	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Soprafix [F]	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Soprafix Base 613	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Soprafix [X]	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.

<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
Soprafix Base 614	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. 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.
Soprafix-e	39" x 33' (1 sq.)	ASTM D6164	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 Base 641	39" x 33' (1 sq.)	ASTM D6164	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 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.
Sopralene Flam 180	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene Flam 180	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).

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

<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
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 GR 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 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).
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 Flam 180 FR GR 3.5	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).

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Sopralene Flam 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene Flam 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants 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).
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.
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 sanded on the bottom and faced with aluminum foil. Applied in hot asphalt, cold adhesive or ribbon stripping.
Soprarstar 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.
Elastocol 500	various	ASTM D41	Asphalt primer.
Elastocol Stick	various	ASTM D41	Asphalt primer.



<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
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.
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	5 gallon pail, 55 gallon drum or 350 gallon tote	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.
COLPLY Adhesive	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Elastomeric bitumen based cold 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**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
ACFoam-II, ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
EPS	Type IX 1.8 pcf. Polystyrene Insulation	Generic
XPS	Type IV 1.6 pcf. Polystyrene Insulation	Generic
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Perlite Insulation	Perlite insulation board	Generic
DensDeck, DensDeck Prime, DensDeck DuraGuard Fireguard Type X Gypsum Board	Water resistant gypsum board	Georgia Pacific Gypsum LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville Corp.
Fesco Board, Fesco Board HD	Expanded mineral fiber insulation	Johns Manville Corp.
Retro-Fit Board	High density Polyisocyanurate	Johns Manville
Multi-Max FA-3	Polyisocyanurate foam insulation	RMax Operating, LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	USG Corp.
M-Shield	Polyisocyanurate foam insulation	Soprema, Inc.
Sopra-ISO r, Sopra-ISO+ r	Polyisocyanurate foam insulation	Soprema, Inc.
Sopra-ISO s, Sopra-ISO+ s	Polyisocyanurate foam insulation	Soprema, Inc.
Sopra-ISO x	Polyisocyanurate foam insulation	Soprema, Inc.
Structodek High Density Fiberboard Roof Insulation	High Density wood fiber insulation board	Blue Ridge Fiberboard, Inc.
Sopraboard	Mineral fortified asphaltic cored coverboard between two layers of asphalt saturated fiberglass mat.	Soprema, Inc.
TopRock DD, TopRock DD Plus, MonoBoard, MonoBoard Plus	Mineral wool insulation	Roxul, Inc.
SopraRock MD, SopraRock MD Plus, SopraRock DD, SopraRock DD Plus	Mineral wool insulation	Soprema, Inc.
STYROFOAM PLAZAMATE	Extruded polystyrene	The Dow Chemical Co.
STYROFOAM ROOFMATE	Extruded polystyrene	The Dow Chemical Co.
Insulfoam SP	Expanded polystyrene	Insulfoam - a division of Carlisle Const. Materials



**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
GreenGuard-CM	Extruded polystyrene	Pactiv Building Products
GreenGuard-PB6, GreenGuard-PB6W, GreenGuard-PB6 PLUS, GreenGuard-PB6FA, GreenGuard-PB38FA, GreenGuard-PB6FA90, GreenGuard-PB3890	Extruded polystyrene	Pactiv Building Products
EnergyGuard POLYISO Insulation, EnergyGuard Ultra POLYISO Insulation, EnergyGuard HD POLYISO Insulation, EnergyGuard HD Plus POLYISO Insulation	Polyisocyanurate foam insulation	GAF
R-TECH (Type IX), R-TECH Fan Fold (Type IX)	Expanded polystyrene	Insulfoam - a division of Carlisle Const. Materials
Invinsa Roof Board, Invinsa FR Roof Board	High density Polyisocyanurate	Johns Manville

**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
1.	Soprema #12, #14 & #15 Fastener	Fasteners for membrane or insulation attachment to wood, steel or concrete decks.		Soprema, Inc.
2.	Dekfast 12, 14 & 15 HS	Insulation fastener		SFS Intec, Inc.
3.	Dekfast 15 Belted	Insulation fastener		SFS Intec, Inc.
4.	Dekfast Galvalume Steel Hex	Galvalume AZ50 steel plate	2 7/8" x 3 1/4"	SFS Intec, Inc.
5.	Dekfast DekFlat Round Plastic Lock Plate	Polypropylene locking plate.	3" x 3 1/4"	SFS Intec, Inc.
6.	Dekfast 2" Round Barbed Seam Plate	Stress plate	2" diameter	SFS Intec, Inc.
7.	OMG AccuTrac Plate	Galvalume square stress plate	3" square	OMG, Inc.
8.	OMG 3" Galvalume Steel Plate	Galvalume stress plate.	3" round	OMG, Inc.
9.	OMG Flat Bottom Metal Plate	Galvalume stress plate.	3" square	OMG, Inc.
10.	#12 Standard Roofgrip, #14 Roofgrip & #15 Roofgrip	Insulation fastener.		OMG, Inc.



**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
11.	3 in. Round Metal Plates	Galvalume AZ50 steel plate	3" round	OMG, Inc.
12.	OMG Plastic Plate	Polypropylene stress plate	3.25" round	OMG, Inc.
13.	Dekfast System ES #14 Plastic	Insulation fastening assembly with plate.	3" round	SFS Intec, Inc.
14.	Dekfast System ES #12 Plastic	Insulation fastening assembly with plate.	3" round	SFS Intec, Inc.
15.	Trufast #14 HD Fastener	Insulation fastener for wood, steel and concrete.		Altenloh, Brinck & Co. U.S., Inc.
16.	Trufast #15 EHD Fastener	Insulation fastener for wood, steel and concrete.		Altenloh, Brinck & Co. U.S., Inc.
17.	Trufast 3" Metal Insulation Plate	Galvalume AZ50 steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
18.	Trufast 2" Barbed Metal Seam Plate	Stress plate	2" diameter	Altenloh, Brinck & Co. U.S., Inc.
19.	Dekfast Isofast IF/IG-C-82x40	Galvalume AZ50 steel plate	82 x 40 mm	SFS Intec, Inc.
20.	Dekfast Isofast IFC/IW-70x70	Galvalume AZ50 steel plate	70 x70 mm	SFS Intec, Inc.
21.	Dekfast Galvalume Steel 3" Round	Galvalume AZ50 steel plate	3" round	SFS Intec, Inc.
22.	Soprema 3" Round Insulation Plate	Stress plate	3" diameter	Soprema, Inc.
23.	Soprafix 2" SB Stress Plate	Stress plate	2" diameter	Soprema, Inc.
24.	Soprafix 2-3/8" SB Stress Plate	Stress plate	2-3/8" diameter	Soprema, Inc.
25.	Soprafix MBB-R	Metal Batten Bar		Soprema, Inc.
26.	Soprema 2" Seam Plate	Stress plate	2" diameter	Soprema, Inc.
27.	Soprema 3" Metal Insulation Plate	Stress plate	3" diameter	Soprema, Inc.
28.	Soprema #14 MP, #15 HD Fastener	Insulation and membrane fasteners		Soprema, Inc.
29.	Simplex MAXX Cap	Polymer 3" pate with two integral ring-shank nails	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.**

<b>System Number</b>	<b>Manufacturer</b>	<b>Application</b>
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 EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive or Soprastar Adhesive at 4 gal./sq.
3.	Karnak Corporation	Karnak #97 Fibered 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.	Quest Construction Products LLC dba United Coatings	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>Report</u>	<u>Name</u>	<u>Date</u>	
Trinity   ERD	2779.11.05-R1	TAS-114	04/18/07	
	2778.07.05	TAS-114	07/15/05	
	S32840.06.10-R1	TAS 117-B	12/11/14	
	2766.12.03	TAS 114	12/01/03	
	S43400.08.14-5	ASTM D6163	08/26/14	
	S43400.08.14-6	ASTM D6164	08/26/14	
	S43400.08.14-7-R1	ASTM D6164	11/20/14	
	S43400.09.14-9	ASTM D6164	09/02/14	
	S43400.09.14-10	ASTM D6298	09/08/14	
	S45010.02.14	ASTM D6506	02/07/14	
	S43400.08.14-4-R1	ASTM D6163	10/24/14	
	S44110.09.14-3	ASTM D6163	09/08/14	
	S44110.09.14-7C	ASTM D6164	09/02/14	
	S44220.09.14-1	ASTM D6162	09/08/14	
	S11440.11.10-4	ASTM D2178	11/17/10	
	S11440.11.10-3-R2	ASTM D4601/TAS 117-B	08/26/14	
	S44220.09.14-7A	ASTM D4601	09/08/14	
	S11440.12.10-1-R1	ASTM D6163	06/07/12	
	S32700.12.10-R2	ASTM D6162	07/07/14	
	S35860.12.11-1-R1	ASTM D2178	12/12/14	
	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	
	S35860.09.12-R2	ASTM D6163	12/12/14	
	S2000.02.13	TAS 114	02/01/13	
	S45070.08.13	FM 4474/TAS 114	08/13/13	
	S43210.11.14	ASTM D1876	11/10/14	
	S39320.01.12-R1	TAS 114/FM 4474	05/24/12	
	S45070.08.13	TAS 114/FM 4474	08/13/13	
	7075.11.14-R1	FM 4474/TAS 117	01/15/15	
	M45560.10.13-1-R2	ASTM D4897/TAS 117	12/11/14	
	S43210.11.14	ASTM D1876	11/10/14	
	S39970.07.12-2	ASTM D6164	07/12/12	
	S39970.07.12-R1	ASTM D6162	12/12/14	
	Factory Mutual Research Corporation	3029098	FM 4470	10/25/07
		3024311	FM 4470	11/01/06
		3036182	FM 4470	07/31/09
		3014751	FM 4470	08/27/03
		3X3A7.AM	FM 4470	09/08/94
		3045101	FM 4470	11/05/12
		3047439	FM 4470	07/22/13
3045734		FM 4470	04/04/12	
3049322		FM 4470	01/17/14	
3044801		FM 4470	02/27/12	
3046765		FM 4470	02/15/13	



**EVIDENCE SUBMITTED: (CONTINUED)**

<b><u>Test Agency/Identifier</u></b>	<b><u>Report</u></b>	<b><u>Name</u></b>	<b><u>Date</u></b>
Underwriters Laboratories	R11436	UL 790	06/18/13
IRT of S. Florida	990028	TAS 114	9/30/99
ITS / Warnock Hersey		ASTM D 5147	05/27/93
PRI Construction Materials	SOP-049-02-01	ASTM D1644/D2196	05/31/12
Technologies, LLC	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
	SOP-056-02-01	Physical Properties	09/12/12
	EATC-001-02-01	ASTM D4586	04/07/09



**APPROVED ASSEMBLIES:**

- Membrane Type:** SBS
- Deck TypeII:** Wood, Insulated
- Deck Description:** 19/32” or greater plywood or wood plank
- System Type A(1):** 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 barrier.  
**(Optional)**

**Anchor Sheet:** One layer Sopra G, Soprabase, Soprabase S, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 180 Sanded 2.2, Sopralene 250 Sanded, Sopralene 250 SP, 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 any of the following insulations.

<b>Base Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ACFoam-II, ACFoam-III, Sopra-ISO s, Sopra-ISO+ s, ENRGY 3, Multi-Max FA-3, Sopra-ISO x, H-Shield, M-Shield, Sopra-ISO r Minimum 1.5” thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>DensDeck, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4” thick</b>	N/A	N/A
<b>Sopraboard Minimum 1/8” thick</b>	N/A	N/A

**Note:** All insulation shall be adhered to the vapor barrier in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup> or Soprema High Velocity<sup>®</sup> Insulation Adhesive III (HVIA-III), High Velocity<sup>®</sup> Insulation Adhesive III –Green, High Velocity<sup>®</sup> 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 3/4” 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. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as a final membrane substrate.2

**Primer:** Elastocol 500, Elastocol Stick, Elastocol Stick Zero at a rate of 1 gal./sq.

**(Optional)**

**Base Sheet:** One layer Colvent TG, Colvent 180 TG, Colvent Flam TG\*, Colvent Flam 180 TG\*, torch-applied.

\*Requires torch-applied ply/cap membrane.



**Ply Sheet:  
(Optional)**

Elastophene Flam\*, Elastophene Flam 2.2\*, Elastophene Flam HS\*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180\*, Colphene Flam 180\*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250\*, Sopralene 250 SP, torch-applied.

Or

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS\*, Elastophene PS 3.0\*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS\*, Colphene 180 PS\*, Sopralene 180 PS 2.2\*, Sopralene 180 Sanded, Sopralene 180 PS\* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.

\*Requires torch-applied cap membrane.

**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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied.

Or

One layer of Elastophene GR, Elastophene FR GR, Elastophene LS 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 adhered in hot asphalt at 25 lbs./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:**

-60 psf. (See General Limitation #7.)



**Membrane Type:** SBS  
**Deck TypeII:** Wood, Insulated  
**Deck Description:** 19/32” or greater plywood or wood plank  
**System Type A(2):** Anchor sheet mechanically fastened, all layers of insulation adhered with approved asphalt or adhesive.

**All General and System Limitations apply.**

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

**Anchor Sheet:** One layer Sopra G, Soprabase, Soprabase S, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 180 Sanded 2.2, Sopralene 250 Sanded or Sopralene 250 SP 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.

**Primer:** Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq., to top surface of any insulation, base or ply sheet prior to application of next layer.

One or more layers of any of the following insulations.

<b>Base Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ACFoam-II, ACFoam-III, Sopra-ISO s, Sopra-ISO+ s, ENRGY 3, Multi-Max FA-3, Sopra-ISO x, Sopra-ISO r, M-Shield, H-Shield Minimum 1.5” thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>DensDeck, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4” thick</b>	N/A	N/A
<b>Sopraboard Minimum 1/8” thick</b>	N/A	N/A

**Note:** All insulation shall be adhered to the vapor barrier in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup> or in Soprema High Velocity<sup>®</sup> Insulation Adhesive III (HVIA-III), High Velocity<sup>®</sup> Insulation Adhesive III –Green, High Velocity<sup>®</sup> 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 3/4” 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. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as a final membrane substrate.

**Primer: (Optional)** Elastocol 500, Elastocol Stick, Elastocol Stick Zero at a rate of 1 gal./sq. for Colvent TG or Colvent 180 TG.



**Base Sheet:**

One layer of Elastophene Flam\*, Elastophene Flam 2.2\*, Elastophene Flam HS\*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180\*, Colphene Flam 180\*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250\*, Sopralene 250 SP, Colvent TG, Colvent 180 TG, Colvent Flam TG\*, Colvent Flam 180 TG\*, torch-applied.

Or

One layer of Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS\*, Elastophene PS 3.0\*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS\*, Colphene 180 PS\*, Sopralene 180 PS 2.2\*, Sopralene 180 Sanded, Sopralene 180 PS\* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq., FM Adhesive, FM Adhesive (VOC), COLPLY Adhesive, COLPLY Modified Adhesive or SopraStar Adhesive.

\*Requires torch-applied ply or cap membrane.

**Ply Sheet:  
(Optional)**

Elastophene Flam\*, Elastophene Flam 2.2\*, Elastophene Flam HS\*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180\*, Colphene Flam 180\*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250\* or Sopralene 250 SP, torch-applied.

Or

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS\*, Elastophene PS 3.0\*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS\*, Colphene 180 PS\*, Sopralene 180 PS 2.2\*, Sopralene 180 Sanded, Sopralene 180 PS\* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq., FM Adhesive, FM Adhesive (VOC), COLPLY Adhesive, COLPLY Modified Adhesive or SopraStar Adhesive to sand surface base membrane.

\*Requires torch-applied cap membrane.

**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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied.

Or

One layer of Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Elastophene FR+ GR, SopraStar Sanded, 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 adhered in hot asphalt at 25 lbs./sq., FM Adhesive, FM Adhesive (VOC), COLPLY Adhesive, COLPLY Modified Adhesive or SopraStar Adhesive 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:**

-60 psf. (See General Limitation #7.)



**Membrane Type:** SBS  
**Deck Type II:** Wood, Insulated  
**Deck Description:** 19/32" or greater plywood or wood plank  
**System Type C(1):** 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.

<b>Base Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Approved EPS or XPS, or any approved polyisocyanurate insulation listed in Table 2 (flat or tapered)</b>		
<b>Minimum 1" thick</b>	N/A	N/A

**Note: All layers of insulation shall be simultaneously fastened; see layer below for fasteners and density.**

<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>DensDeck, SECUROCK Gypsum-Fiber Roof Board</b>		
<b>Minimum 0.25" thick</b>	<b>1, 2, 10, 15, 28 (#14)</b>	<b>1:1.6 ft<sup>2</sup></b>
<b>Sopraboard</b>		
<b>Minimum 1/8" thick</b>	<b>1, 2, 10, 15, 28 (#14)</b>	<b>1:1.6 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. (See Roofing Application Standard RAS 117 for fastening details.)**

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

**Base Sheet:** One layer Colvent TG, Colvent 180 TG, Colvent Flam TG\*, Colvent Flam 180 TG\*, torch-applied.  
 \*Requires torch-applied ply or cap membrane.

**Ply Sheet:** One or more layers of Elastophene Flam\*, Elastophene Flam 2.2\*, Elastophene Flam HS\*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180\*, Colphene Flam 180\*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250\*, Sopralene 250 SP, torch-applied.  
 Or  
 Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS\*, Elastophene PS 3.0\*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS\*, Colphene 180 PS\*, Sopralene 180 PS 2.2\*, Sopralene 180 Sanded, Sopralene 180 PS\* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.  
 \*Requires torch-applied cap membrane.



**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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied.

Or

One layer of Elastophene GR, Elastophene FR GR, Elastophene LS 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 adhered in hot asphalt at 25 lbs./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:** 19/32" or greater plywood or wood plank  
**System Type C(2):** 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.**

<b>Base Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Approved EPS or XPS or any approved polyisocyanurate insulation listed in Table 2 (flat or tapered)</b>		
<b>Minimum 1" thick</b>	N/A	N/A

**Note: All layers of insulation shall be simultaneously fastened; see layer below for fasteners and density.**

<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>DensDeck, SECUROCK Gypsum-Fiber Roof Board Minimum 0.25" thick</b>	<b>1, 2, 10, 15, 28 (#14)</b>	<b>1:1.6 ft<sup>2</sup></b>
<b>Sopraboard Minimum 1/8" thick</b>	<b>1, 2, 10, 15, 28 (#14)</b>	<b>1:1.6 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. (See Roofing Application Standard RAS 117 for fastening details.)**

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

**Base Sheet:** One layer of Elastophene Flam\*, Elastophene Flam 2.2\*, Elastophene Flam HS\*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180\*, Colphene Flam 180\*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250\*, Sopralene 250 SP, Colvent TG or Colvent 180 TG, torch-applied.

Or

One layer of Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS\*, Elastophene PS 3.0\*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS\*, Colphene 180 PS\*, Sopralene 180 PS 2.2\*, Sopralene 180 Sanded, Sopralene 180 PS\* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq., FM Adhesive, FM Adhesive (VOC), COLPLY Adhesive, COLPLY Modified Adhesive or Soprastar Adhesive.

\*Requires torch-applied ply or cap membrane.



**Ply Sheet:  
(Optional)**

Elastophene Flam\*, Elastophene Flam 2.2\*, Elastophene Flam HS\*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180\*, Colphene Flam 180\*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250\*, Sopralene 250 SP, torch-applied.

Or

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene HS, Elastophene HS 62, Elastophene PS\*, Elastophene PS 3.0\*, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Elastophene 180 PS\*, Colphene 180 PS\*, Sopralene 180 PS 2.2, Sopralene 180 Sanded, Sopralene 180 PS\* or Sopralene 250 Sanded adhered in hot asphalt at 25 lbs./sq., FM Adhesive, FM Adhesive (VOC), COLPLY Adhesive, COLPLY Modified Adhesive or SopraStar Adhesive to sand surfaced base membrane.

**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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, torch-applied.

Or

One layer of Elastophene GR, Elastophene FR GR, Elastophene LS 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 adhered in hot asphalt at 25 lbs./sq., FM Adhesive, FM Adhesive (VOC), COLPLY Adhesive, COLPLY Modified Adhesive or SopraStar Adhesive 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 1I:** Wood, Insulated  
**Deck Description:** Min. 19/32” plywood or wood plank  
**System Type D(1):** 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 with a maximum spacing of 6” o.c.

**All General and System Limitations apply.**

**Slip Sheet:** One or more plies Sopra-G or Modified Sopra-G, loose-laid.  
**(Optional)**

<b>Insulation Layer(s)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>TopRock DD, TopRock DD Plus, SopraRock DD, SopraRock DD Plus Min. 2-inch thick</b>	N/A	N/A
<b>STYROFOAM PLAZAMATE Min. 1.5-inch thick</b>	N/A	N/A
<b>ACFoam III, SOPRA-ISO PLUS s Min. 1.3-inch thick</b>	N/A	N/A
<b>ENRGY 3 FR, ENRGY 3 AGF, ENRGY 3 CGF, H-Shield CG, SOPRA-ISO PLUS r (flat or tapered), Fesco Board HD, MonoBoard, MonoBoard Plus, SopraRock MD, SopraRock MD Plus, GreenGuard-CM, STYROFOAM ROOFMATE, Insulfoam SP (Type IX) Min. 1-inch thick</b>	N/A	N/A
<b>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) Min. 0.5-inch</b>	N/A	N/A
<b>Fesco Board (flat or tapered) Homogeneous: Minimum 0.75” thick Laminated: Minimum 1.5” thick</b>	N/A	N/A
<b>Retro-Fit Board, DuraBoard, Structodek High Density Fiberboard Roof Insulation Minimum 0.5” thick</b>	N/A	N/A
<b>GreenGuard-PB6, GreenGuard-PB6W, GreenGuard-PB6 PLUS, GreenGuard-PB6FA, GreenGuard-PB38FA, GreenGuard-PB6FA90, GreenGuard-PB3890 Minimum 0.375” thick</b>	N/A	N/A



**Insulation Layer(s): (Continued)**

**Insulation Fasteners  
(Table 3)**

**Fastener  
Density/ft<sup>2</sup>**

**Dens Deck, Dens Deck 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. (See Roofing Application Standard RAS 117 for fastening details.)**

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

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

**Ply Sheet:** None

**Membrane:** Soprapstar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR applied in COLPLY Adhesive at 1.5 – 2.0 gal./square.

**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 1I:** Wood, Insulated  
**Deck Description:** Min. 19/32” plywood or wood plank  
**System Type D(2):** 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 Sopra-G or Modified Sopra-G, loose-laid.  
**(Optional)**

<b>Insulation Layer(s)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>TopRock DD, TopRock DD Plus, SopraRock DD, SopraRock DD Plus Min. 2-inch thick</b>	N/A	N/A
<b>STYROFOAM PLAZAMATE Min. 1.5-inch thick</b>	N/A	N/A
<b>ACFoam III, SOPRA-ISO PLUS s Min. 1.3-inch thick</b>	N/A	N/A
<b>ENRGY 3 FR, ENRGY 3 AGF, ENRGY 3 CGF, H-Shield CG, SOPRA-ISO PLUS r (flat or tapered), Fesco Board HD, MonoBoard, MonoBoard Plus, SopraRock MD, SopraRock MD Plus, GreenGuard-CM, STYROFOAM ROOFMATE, Insulfoam SP (Type IX) Min. 1-inch thick</b>	N/A	N/A
<b>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) Min. 0.5-inch</b>	N/A	N/A
<b>Fesco Board (flat or tapered) Homogeneous: Minimum 0.75” thick Laminated: Minimum 1.5” thick</b>	N/A	N/A
<b>Retro-Fit Board, DuraBoard, Structodek High Density Fiberboard Roof Insulation Minimum 0.5” thick</b>	N/A	N/A
<b>GreenGuard-PB6, GreenGuard-PB6W, GreenGuard-PB6 PLUS, GreenGuard-PB6FA, GreenGuard-PB38FA, GreenGuard-PB6FA90, GreenGuard-PB3890 Minimum 0.375” thick</b>	N/A	N/A



**Insulation Layer(s): (Continued)**

**Insulation Fasteners  
(Table 3)**

**Fastener  
Density/ft<sup>2</sup>**

**Dens Deck, Dens Deck 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. (See Roofing Application Standard RAS 117 for fastening details.)**

**Base Sheet:** One ply of Soprafix Base 610, Soprafix Base 611, Soprafix Base 612 or Soprafix Base 614 fastened to the deck as described below:

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

**Ply Sheet:  
(Optional)** Elastophene Flam HS, Elastophene Flam 2.2, Elastophene Flam, Sopralene Flam 180, Colphene Flam 180, Sopralene Flam 250, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5 or Sopralene 250 SP, torch-applied.

**Membrane:** Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Sopraplast Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, 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:** -82.5 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(3):** All layers of insulation and membrane 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 Sopra-G or Modified Sopra-G, loose-laid.  
**(Optional)**

<b>Insulation Layer(s):</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>TopRock DD, TopRock DD Plus, SopraRock DD, SopraRock DD Plus Min. 2-inch thick</b>	N/A	N/A
<b>STYROFOAM PLAZAMATE Min. 1.5-inch thick</b>	N/A	N/A
<b>ACFoam III, SOPRA-ISO PLUS s Min. 1.3-inch thick</b>	N/A	N/A
<b>ENRGY 3 FR, ENRGY 3 AGF, ENRGY 3 CGF, H-Shield CG, SOPRA-ISO PLUS r (flat or tapered), Fesco Board HD, MonoBoard, MonoBoard Plus, SopraRock MD, SopraRock MD Plus, GreenGuard-CM, STYROFOAM ROOFMATE, Insulfoam SP (Type IX) Min. 1-inch thick</b>	N/A	N/A
<b>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) Min. 0.5-inch</b>	N/A	N/A
<b>Fesco Board (flat or tapered) Homogeneous: Minimum 0.75” thick Laminated: Minimum 1.5” thick</b>	N/A	N/A
<b>Retro-Fit Board, DuraBoard, Structodek High Density Fiberboard Roof Insulation Minimum 0.5” thick</b>	N/A	N/A
<b>GreenGuard-PB6, GreenGuard-PB6W, GreenGuard-PB6 PLUS, GreenGuard-PB6FA, GreenGuard-PB38FA, GreenGuard-PB6FA90, GreenGuard-PB3890 Minimum 0.375” thick</b>	N/A	N/A



**Insulation Layer(s): (Continued)**

**Insulation Fasteners  
(Table 3)**

**Fastener  
Density/ft<sup>2</sup>**

**Dens Deck, Dens Deck 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. (See Roofing Application Standard RAS 117 for fastening details.)**

**Membrane:**

One ply of Unilay fastened to the deck as described below:

**Fastening:**

Soprema #14 MP Fasteners with Soprafix 2 3/8-inch SB Stress Plates spaced 6" o.c. within the minimum 5" wide, hot-air welded side laps.

**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, Insulated  
**Deck Description:** Min. 19/32" plywood or wood plank  
**System Type D(4):** All layers of insulation and base sheet simultaneously 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)**

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Any approved polyisocyanurate listed in Table 2(flat or tapered) Minimum 1" thick	N/A	N/A
Approved EPS or XPS Minimum 1" thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum 0.5" thick	N/A	N/A
Approved Perlite Insulation Minimum 0.75" thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 0.5" thick	N/A	N/A
Sopraboard Minimum 1/8" 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. (See Roofing Application Standard RAS 117 for fastening details.)

**Primer:** Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq., to top surface of any base or ply sheet prior to application of next layer

**Base Sheet:** One ply of Soprafix, Soprafix Base 622, Soprafix [S]\*, Soprafix Base 612\*, Soprafix [F]\*, Soprafix Base 613\*, Soprafix [X]\*, Soprafix Base 614\*, Soprafix-e or Soprafix Base 641, fastened to the deck as described below:

\*Requires torch-applied ply or cap membrane.

**Fastening:** Attach base sheet using Soprafix MBB-R with Soprema #15 fasteners spaced 6" o.c. in the minimum 5" wide lap.



**Ply Sheet:  
(Optional)** Sopralene Flam 180\*, Colphene Flam 180\*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250\*, Sopralene 250 SP, Colvent 180 TG, Colvent Flam 180 TG\* torch-applied.

\*Requires torch-applied cap membrane.

**Membrane:** Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-applied.

Or

Elastophene GR, Elastophene FR GR, Elastophene LS 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 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded or Soprastar Sanded adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive, FM Adhesive or FM Adhesive (VOC) at 1.5 – 2.0 gallons/square. The 3” wide side laps are adhered with the same adhesive or 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:** -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(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 Sopra-G or Modified Sopra-G, loose-laid.  
**(Optional)**

**Base Sheet:** Sopra 4897 or Soprabase TG\* fastened to the deck as described below:  
\*Requires torch-applied ply or cap.

**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 Flam HS\*, Elastophene Flam 2.2\*, Elastophene Flam\*, Sopralene Flam 180\*, Colphene Flam 180\*, Sopralene Flam 250\*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied  
**(Optional)**  
\*Requires torch-applied Cap

**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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, 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 Sopra-G or Modified Sopra-G, loose-laid.  
**(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, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied

**Membrane:** Elastophene FR GR, Elastophene GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 Ultra FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded or Soprastar Sanded applied Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

**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 Sopra-G or Modified Sopra-G, loose-laid.

**(Optional)**

**Base Sheet:** Sopra-G, Modified Sopra-G, Sopra 4897 or 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

**Ply Sheet:** Sopra-G, Modified Sopra-G, Soprabase, Soprabase S, Sopra IV, Sopra VI, Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene HS, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS\*, Elastophene PS 3.0\*, Sopralene 180 PS 2.2\*, Colphene 180 PS\*, Sopralene 180 PS\* applied in hot asphalt.

\*Requires torch-applied Cap.

**Membrane:** (With Sopra 4897 or listed ply sheets) 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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, 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(4):** 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 Sopra-G or Modified Sopra-G, loose-laid.

**(Optional)**

**Base Sheet:** Sopra-G, Modified Sopra-G, Sopra 4897 or 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

**Ply Sheet:** Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene HS, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded applied in hot asphalt.

**Membrane:** 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 Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

**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(5):** 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 Sopra-G or Modified Sopra-G, loose-laid.

**(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

**Ply Sheet:** Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded  
**(Optional)** 3.0, Elastophene HS, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS\*, Elastophene PS 3.0\*, Sopralene 180 PS 2.2\*, Colphene 180 PS\*, Sopralene 180 PS\* in Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

\*Requires torch-applied Cap.

**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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, 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 Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

**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 E(6):** 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:** One or more plies Sopra-G or Modified Sopra-G, loose-laid.  
**(Optional)**  
**Base Sheet:** One ply of Soprafix Base 621 or Soprafix Base 622 fastened to the deck as described below:  
**Fastening:** Soprema #14 MP Fasteners with Soprafix 2-inch Seam Plates spaced 6" o.c. within the minimum 4" wide, hot-air welded side laps.  
**Ply Sheet:** None  
**Membrane:** SopraStar Sanded, Elastophene GR, Elastophene LS FR GR, Elastophene FR GR applied in COLPLY Adhesive at 1.5 – 2.0 gal./square.  
**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, Insulated  
**Deck Description:** Min. 19/32" plywood 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 SPAX No. 10 x 2½" screws spaced maximum 6" o.c.

**All General and System Limitations apply.**

**Slip Sheet:** One or more plies Sopra-G or Modified Sopra-G, loose-laid.

**(Optional)**

**Base Sheet:** One ply of Soprafix Base 610, Soprafix Base 611, Soprafix Base 612 or Soprafix Base 614 fastened to the deck as described below:

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

**Ply Sheet:** Elastophene Flam HS, Elastophene Flam 2.2, Elastophene Flam, Sopralene Flam 180, Colphene Flam 180, Sopralene Flam 250, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5 or Sopralene 250 SP, torch-applied.

**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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, 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:** -82.5 psf. (See General Limitation #7)



**Membrane Type:** SBS  
**Deck Type II:** Wood, Non-Insulated  
**Deck Description:** Min. 19/32" CDX plywood or wood plank  
**System Type E(8):** Base sheet mechanically fastened to substrate.  
**Deck:** Decking is attached to spans spaced maximum 24" o.c. with SPAX #10 x 2-1/2" long decking screws spaced maximum 6" o.c. at panel edges and intermediate supports.

**All General and System Limitations apply.**

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

**Base Sheet:** One ply of Soprafix Base 611\*, Soprafix Base 610\*, Soprafix Base 630\*, Soprafix Base 621, Soprafix, Soprafix Base 622, Soprafix [S]\*, Soprafix Base 612\*, Soprafix [F]\*, Soprafix Base 613\*, Soprafix [X]\* or Soprafix Base 614\* fastened to the deck as described below:

\*Requires torch-applied cap membrane.

**Fastening #1:** Attach base sheet using Trufast #14 HD Fasteners with Trufast 2" Barbed Metal Seam Plates or Soprema #14 MP Fasteners with Soprafix 2" Seam Plates spaced 12" o.c. in the minimum 4" wide, hot-air-welded side laps.  
*(Meets Maximum Design Pressure of -52.5 psf; See General Limitation #7.)*

**Fastening #2:** Attach base sheet using Trufast #14 HD Fasteners and Soprema #14 MP Fasteners with Trufast 2" Barbed Metal Seam Plates and Soprafix 2" Seam Plates or Trufast #14 HD Fasteners and Soprema #14 MP Fasteners with Trufast 2.4" Scoop Seam Plates and Soprema 2.4" Seam Plates spaced 6" o.c. in the minimum 4" wide, hot-air-welded side laps.  
*(Meets Maximum Design Pressure of -82.5 psf; See General Limitation #7.)*

**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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-applied.

Or

Elastophene GR, Elastophene FR GR, Elastophene LS 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 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded or Soprastar Sanded adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive, FM Adhesive or FM Adhesive (VOC) at 1.5 – 2.0 gallons/square. The 3” wide side laps are adhered with the same adhesive or 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:**

See Fastening Requirements above.



**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 6" o.c.

**All General and System Limitations apply.**

**Slip Sheet:** One or more plies Sopra-G or Modified Sopra-G, loose-laid.

**(Optional)**

**Base Sheet:** Sopra 4897 or Soprabase TG\* fastened to the deck as described below:  
\*Requires torch-applied ply or cap.

**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 Flam HS\*, Elastophene Flam 2.2\*, Elastophene Flam\*, Sopralene Flam 180\*, Colphene Flam 180\*, Sopralene Flam 250\*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied  
\*Requires torch-applied Cap

**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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, 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(10):** 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 Sopra-G or Modified Sopra-G, loose-laid.  
**(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, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied

**Membrane:** Elastophene FR GR, Elastophene GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 Ultra FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded or Soprastar Sanded applied Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

**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(11):** 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 Sopra-G or Modified Sopra-G, loose-laid.

**(Optional)**

**Base Sheet:** Sopra-G, Modified Sopra-G, Sopra 4897 or 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

**Ply Sheet:** Sopra-G, Modified Sopra-G, Soprabase, Soprabase S, Sopra IV, Sopra VI, Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS\*, Elastophene PS 3.0\*, Sopralene 180 PS 2.2\*, Colphene 180 PS\*, Sopralene 180 PS\* applied in hot asphalt.

\*Requires torch-applied Cap.

**Membrane:** (With Sopra 4897 or listed ply sheets) 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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, 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(12):** 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 Sopra-G or Modified Sopra-G, loose-laid.  
**(Optional)**

**Base Sheet:** Sopra-G, Modified Sopra-G, Sopra 4897 or 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

**Ply Sheet:** Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded applied in hot asphalt.

**Membrane:** 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 Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

**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(13):** 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 Sopra-G or Modified Sopra-G, loose-laid.

**(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

**Ply Sheet:** Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded  
**(Optional)** 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS\*, Elastophene PS 3.0\*, Sopralene 180 PS 2.2\*, Colphene 180 PS\*, Sopralene 180 PS\* in Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

\*Requires torch-applied Cap.

**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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, 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 Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

**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 or wood plank

**System Type E(14):** Base sheet mechanically fastened to substrate.

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

**Primer:** Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq., to top surface of any base or ply sheet prior to application of next layer

**Base Sheet:** One ply of Soprafix, Soprafix Base 622, Soprafix [S]\*, Soprafix Base 612\*, Soprafix [F]\*, Soprafix Base 613\*, Soprafix [X]\*, Soprafix Base 614\*, Soprafix-e or Soprafix Base 641, fastened to the deck as described below:  
 \*Requires torch-applied ply or cap membrane.

**Fastening:** Attach base sheet using Soprafix MBB-R with Soprema #15 fasteners spaced 6" o.c. in the minimum 5" wide lap.

**Ply Sheet: (Optional)** Sopralene Flam 180\*, Colphene Flam 180\*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250\*, Sopralene 250 SP, Colvent 180 TG, Colvent Flam 180 TG\* torch-applied.  
 Or  
 Elastophene 180 PS\*, Colphene 180 PS\*, Sopralene 180 PS 2.2\*, Sopralene 180 PS\* adhered in hot asphalt at 25 lbs./sq.  
 \*Requires torch-applied cap membrane.

**Membrane:** Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, torch-applied.  
 Or  
 Elastophene GR, Elastophene FR GR, Elastophene LS 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 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded or Soprastar Sanded adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive, FM Adhesive or FM Adhesive (VOC) at 1.5 – 2.0 gallons/square. The 3" wide side laps are adhered with the same adhesive or 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:**

-90 psf. (See General Limitation #7)



**Membrane Type:** SBS

**Deck Type 1I:** Wood, Non-Insulated

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

**System Type E(15):** 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 Sopra-G or Modified Sopra-G, loose-laid.  
**(Optional)**

**Base Sheet:** Sopra 4897 or Soprabase TG\* fastened to the deck as described below:  
\*Requires torch-applied ply or cap.

**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 Flam HS\*, Elastophene Flam 2.2\*, Elastophene Flam\*, Sopralene Flam 180\*, Colphene Flam 180\*, Sopralene Flam 250\*, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied  
**(Optional)**  
\*Requires torch-applied Cap

**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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, 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:** -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(16):** 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 Sopra-G or Modified Sopra-G, loose-laid.  
**(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, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied

**Membrane:** Elastophene FR GR, Elastophene GR, Elastophene LS FR GR, Elastophene FR+ GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 180 Ultra FR GR, Sopralene 180 FR+ GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded or Soprastar Sanded applied Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

**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(17):** 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 Sopra-G or Modified Sopra-G, loose-laid.

**(Optional)**

**Base Sheet:** Sopra-G, Modified Sopra-G, Sopra 4897 or 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

**Ply Sheet:** Sopra-G, Modified Sopra-G, Soprabase, Soprabase S, Sopra IV, Sopra VI, Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS\*, Elastophene PS 3.0\*, Sopralene 180 PS 2.2\*, Colphene 180 PS\*, Sopralene 180 PS\* applied in hot asphalt.

\*Requires torch-applied Cap.

**Membrane:** (With Sopra 4897 or listed ply sheets) 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, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralast 50 TV Alu, Sopralene Flam Antirock, Soprafix Cap FR-651, 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:** -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(18):** 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 Sopra-G or Modified Sopra-G, loose-laid.  
**(Optional)**

**Base Sheet:** Sopra-G, Modified Sopra-G, Sopra 4897 or 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

**Ply Sheet:** Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded applied in hot asphalt.

**Membrane:** 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 Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

**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(19):** 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 Sopra-G or Modified Sopra-G, loose-laid.  
**(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

**Ply Sheet:** Elastophene HS 62, Elastophene Sanded, Colphene Sanded, Elastophene Sanded  
**(Optional)** 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded, Sopralene 250 Sanded, Elastophene PS\*, Elastophene PS 3.0\*, Sopralene 180 PS 2.2\*, Colphene 180 PS\*, Sopralene 180 PS\* in Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

\*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 Colply Adhesive, Colply Modified Adhesive or Colply EF Adhesive.

**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.: 14-0603.10  
Expiration Date: 03/01/16  
Approval Date: 01/22/15  
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