MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

SOPREMA, Inc.
310 Quadral Drive
Wadsworth, OH 44281

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: SOPREMA Alsan RS 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 renews and revises NOA No. 15-0707.04 and consists of pages 1 through 32.

The submitted documentation was reviewed by Jorge L. Acebo.

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Liquid Applied Roof Systems
Material: PMMA
Deck Type: Wood
Maximum Design Pressure: -105 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
Alsan RS 230 Field	Various	Proprietary	A two component, rapid curing, PMMA liquid membrane.
Alsan RS 260 LO Field	Various	Proprietary	Low odor, rapid curing, PMMA liquid membrane.
Alsan RS 230 Flash	Various	Proprietary	A two component, rapid curing, PMMA liquid membrane.
Alsan RS 260 LO Flash	Various	Proprietary	Low odor, rapid curing, PMMA liquid membrane.
Alsan RS Fleece	Various	Proprietary	Non-woven, needle-punched polyester fabric reinforcement used as fabric reinforcement in Alsan RS systems.
Modified Sopra-G	39” x 108’ (3.5 sq.)	ASTM D4601	Fiberglass reinforced modified asphalt base sheet for bonding or mechanically attaching to substrate. For use as a base/ply sheet only.
Soprabase	39” x 99’ (3 sq.)	ASTM D4601	Oxidized asphalt, polyester reinforced, sand-surfaced base sheet. For use as a base/ply sheet only.
Soprabase S	39” x 65’ (2 sq.)	ASTM D4601	SBS modified bitumen, polyester reinforced, sand-surfaced base sheet. For use as a base/ply sheet only.
Soprabase TG	39” x 65’ (2 sq.)	ASTM D4601	SBS modified bitumen, polyester reinforced, film-surfaced base sheet. For use as a base/ply sheet only.
Sopra 4897	39” x 41’	ASTM D4897	Fiberglass reinforced, smooth surfaced, modified bitumen venting base sheet for mechanically attaching to substrate.
Sopra IV	36” x 180’ (5 sq.)	ASTM D2178 Type IV	Type IV fiberglass reinforced, smooth surfaced ply sheet 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 ply sheet. Sopra IV or VI are used in multi-ply systems and complies with ASTM and UL Standards. Applied in hot asphalt or cold adhesive.
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.

Product	Dimensions	Test Specification	Product Description
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 2.2	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 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).
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).
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.
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.

Product	Dimensions	Test Specification	Product Description
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 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 612	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 Base 614	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
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 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.
Sopralene Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top.
Colphene Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top.
Alsan RS 222 Primer	Various	Proprietary	Two-component, rapid curing PMMA acrylic primer

Product	Dimensions	Test Specification	Product Description
Alsan RS 276 Primer	Various	Proprietary	Two-component, rapid curing PMMA acrylic primer
Alsan RS 233 Self-Leveling Mortar	Various	Proprietary	Two-component surfacing composed of Alsan RS 223 Powder and Alsan RS 210 Low Odor Resin.
Alsan RS 263 LO Self Leveling Mortar	Various	Proprietary	Two-component surfacing composed of Alsan RS 223 Powder and Alsan RS 240 LO resin.
Alsan RS 281 Finish	Various	Proprietary	Two-component, rapid curing, PMMA acrylic clear finish resin.
Alsan RS 287 Color Finish Base	Various	Proprietary	Rapid curing, PMMA base resin.
Alsan RS 289 Textured Base	Various	Proprietary	Rapid curing, PMMA aggregated trafficable surface finish resin.
Alsan RS Deco Chips	Various	Proprietary	Polymer flat, pigmented, flakes used as a textured and decorative surfacing finish.
Elastocol 500	Various	ASTM D41	Asphalt primer.
Elastocol Stick	Various	ASTM D41	Asphalt primer.
Elastocol Stick Zero	Various	ASTM D41	Asphalt primer.
DUOTACK	5, 50 gallon pail	Proprietary	Two part elastomeric urethane foam adhesive.
DUOTACK NEO	5, 50 gallon pail	Proprietary	Two part polyurethane foam adhesive.
COLPLY EF Adhesive	5 gallon pail	Proprietary	Solvent free, polymeric adhesive.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam-II, ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
DensDeck, DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, a division of Carlisle Construction Materials, LLC.
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville Corp.
Fesco Board, Fesco Board HD, DuraBoard	Expanded mineral fiber insulation	Johns Manville Corp.
Retro-Fit Board	High density Polyisocyanurate	Johns Manville
Multi-Max FA-3, Ultra-Max	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	USG Corp.
M-Shield	Polyisocyanurate foam insulation	SOPREMA, Inc.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
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, 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., dba Rockwool
SopraRock MD, SopraRock MD Plus, SopraRock DD, SopraRock DD Plus	Mineral wool insulation	SOPREMA, Inc.
STYROFOAM PLAZAMATE, STYROFOAM ROOFMATE	Extruded polystyrene	DuPont de Nemours, Inc.
Insulfoam SP	Expanded polystyrene	Insulfoam - a division of Carlisle Const. Materials
R-TECH (Type IX), R-TECH Fan Fold (Type IX)	Expanded polystyrene	Insulfoam - a division of Carlisle Const. Materials
Kingspan GreenGuard-CM	Extruded polystyrene	Kingspan Insulation LLC
Kingspan GreenGuard-PB6/PB38, Kingspan GreenGuard-PB6W, Kingspan GreenGuard-PB6 PLUS,	Extruded polystyrene	Kingspan Insulation LLC
EnergyGuard POLYISO Insulation, EnergyGuard Ultra POLYISO Insulation, EnergyGuard HD POLYISO Insulation, EnergyGuard HD Plus POLYISO Insulation	Polyisocyanurate foam insulation	GAF
Invinsa Roof Board, Invinsa FR Roof Board	High density Polyisocyanurate	Johns Manville

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Soprema #14 MP Fastener	Insulation and membrane fasteners	Various	SOPREMA, Inc.
2.	Soprema #15 Fastener	Fasteners for membrane or insulation attachment to wood, steel or concrete decks.	Various	SOPREMA, Inc.
3.	Soprema 2" Seam Plate	Stress plate	2” diameter	SOPREMA, Inc.
4.	Soprema 2.4” Seam Plates	Galvalume steel stress plate	2.4” Round	SOPREMA, Inc.
5.	Soprema 3" Metal Insulation Plate	Stress plate	3” diameter	SOPREMA, Inc.
6.	Soprafix MBB-R	Metal Batten Bar	Various	SOPREMA, Inc.
7.	Trufast #14 HD Fastener	Insulation fastener for wood, steel and concrete.	Various	Altenloh, Brinck & Co. U.S., Inc.
8.	Trufast 2” Barbed Metal Seam Plate	Stress plate	2” diameter	Altenloh, Brinck & Co. U.S., Inc.
9.	Trufast 2.4” Scoop Seam Plate	Galvalume steel stress plate	2.4” Round	Altenloh, Brinck & Co. U.S., Inc.
10.	Trufast 3” Metal Insulation Plate	Galvalume AZ50 steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
11.	Simplex MAXX Cap	Polymer 3” pate with two integral ring-shank nails	3” diameter	Simplex Nails, Inc.
12.	Millennium One Step Foamable Adhesive	Polyurethane two component high rise insulation adhesive	Various	H.B. Fuller Company
13.	Millennium One Step Green Foamable Adhesive	Polyurethane two component high rise insulation adhesive	Various	H.B. Fuller Company
14.	Millennium PG-1 Low Viscosity Insulation Adhesive	Polyurethane two component high rise insulation adhesive	Various	H.B. Fuller Company
15.	Insta-Stik Quik Set Insulation Adhesive	Polyurethane one component moisture curing adhesive	Various	DuPont de Nemours, Inc.

APPROVED SURFACING/COATING OPTIONS:

TABLE 4

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

System Number	Manufacturer	Application
1.	SOPREMA, Inc.	Alsan RS 281 Finish applied at a rate of 0.74 gal. per 100 ft^2 for smooth surfaced or 1.23 gal./sq. for aggregated surfaces.
2.	SOPREMA, Inc.	Alsan RS 233 Self-Leveling Mortar applied at a rate of 1.8 gal. per 100 ft^2. Optional dried quartz aggregate applied at a rate of 100 lbs. per 100 ft^2 into wet Alsan RS 233 Self-Leveling Mortar. Optional finish coat of Alsan RS 281 Finish applied at a rate of 0.74 gal. per 100 ft^2.
3.	SOPREMA, Inc.	Alsan RS 263 LO Self Leveling Mortar applied at a rate of 1.8 gal. per 100 ft^2. Optional dried quartz aggregate applied at a rate of 100 lbs. per 100 ft^2 into wet Alsan RS 263 LO Self-Leveling Mortar. Optional finish coat of Alsan RS 281 Finish applied at a rate of 0.74 gal. per 100 ft^2.
4.	SOPREMA, Inc.	Alsan RS 230 Field applied at 2.6 gal. per 100 ft^2. Finish coat of Alsan RS 287 Color Finish Base applied at 1.2 gal. per 100 ft^2 with optional Alsan RS Deco Chips applied at 1.3 lbs. per 100 ft^2 embedded into wet top coat
5.	SOPREMA, Inc.	Alsan RS 233 Self-Leveling Mortar applied at 8.7 gal. per 100 ft^2. Finish coat of Alsan RS 287 Color Finish Base applied at 1.2 gal. per 100 ft^2 with optional Alsan RS Deco Chips applied at 1.3 lbs. per 100 ft^2embedded into wet top coat.
6.	SOPREMA, Inc.	Alsan RS 260 LO Field applied at 2.6 gal. per 100 ft^2. Finish coat of Alsan RS 287 Color Finish Base applied at 1.2 gal. per 100 ft^2 with optional Alsan RS Deco Chips applied at 1.3 lbs. per 100 ft^2 embedded into wet top coat.
7.	SOPREMA, Inc.	Alsan RS 263 LO Self-Leveling Mortar applied at 8.7 gal. per 100 ft^2. Optional finish coat of Alsan RS 287 Color Finish Base applied at 1.2 gal. per 100 ft^2 with optional Alsan RS Deco Chips applied at 1.3 lbs. per 100 ft^2 embedded into wet top coat.
8.	SOPREMA, Inc.	Alsan RS 233 Self-Leveling Mortar applied at 8.7 gal. per 100 ft^2. Optional finish coat of Alsan RS 289 Textured Base applied at 3.2 gal. per 100 ft^2.
9.	SOPREMA, Inc.	Alsan RS 230 Field applied at 2.6 gal. per 100 ft^2. Finish coat of Alsan RS 289 Textured Base applied at 3.2 gal. per 100 ft^2. with optional Alsan RS Deco Chips applied at 1.3 lbs. per 100 ft^2 embedded into wet top coat.
10.	SOPREMA, Inc.	Alsan RS 287 Color Finish Base applied at 1.2 gal. per 100 ft^2.
11.	SOPREMA, Inc.	Alsan RS 289 Textured Base applied at 3.2 gal. per 100 ft^2.

EVIDENCE SUBMITTED:

Test Agency/Identifier	Report	Name	Date
Trinity | ERD	2777.09.05-R2	TAS 114	05/24/02
	2761.09.03	TAS 114	09/02/03
	2778.07.05	TAS-114	07/15/05
	2779.11.05-R1	TAS-114	04/18/07
	S39320.01.12-R1	TAS 114	05/24/12
	S39970.07.12-2	ASTM D6164	07/12/12
	S2000.02.13	TAS 114	02/01/13
	S35860.05.12-1-R2	ASTM D6163	03/14/13
	S35860.05.12-3-R1	ASTM D6164	03/14/13
	S45070.08.13	TAS 114	08/13/13
	S45010.02.14	ASTM D6506	02/07/14
	S47170.05.14-1	TAS 114	05/12/14
	S43400.08.14-6	ASTM D6164	08/26/14
	S11440.11.10-3-R2	ASTM D4601/TAS 117-B	08/26/14
	S35860.05.12-2-R3	ASTM D6164	08/29/14
	S44110.09.14-7C	ASTM D6164	09/02/14
	S43400.08.14-4-R1	ASTM D6163	10/24/14
	S43210.11.14	ASTM D1876	11/10/14
	S32840.06.10-R1	TAS 117-B	12/11/14
	M45560.10.13-1-R2	ASTM D4897/TAS 117	12/11/14
	7075.11.14-R1	FM 4474/TAS 117	01/15/15
	SOPC-S42600.08.15-R2	Physical Properties	03/21/16
FM Approvals	3014751	FM 4470	08/27/03
	3023458	FM 4470	07/18/06
	3024311	FM 4470	11/01/06
	3036182	FM 4470	07/31/09
	3035625	FM 4470	09/17/10
	3046765	FM 4470	02/15/13
	3047439	FM 4470	07/22/13
	3049322	FM 4470	01/17/14
	RR202234	FM 4470	08/13/15
	RR202938	FM 4470	10/20/15
UL LLC	R11436	UL 790	06/17/21
PRI Construction Materials Technologies, LLC	SOP-041-02-01	ASTM D2178	02/27/12
	SOP-040-02-01	ASTM D2178	02/27/12
	SOP-049-02-01	ASTM D1644/D2196	05/31/12
	SOP-050-02-01	ASTM D3019	07/12/12
	SOP-056-02-01	Physical Properties	09/12/12
	SOP-071-02-01	Physical Properties	02/12/16
NEMO ETC, LLC	4S-SOP-18-002.02.19	Physical Properties	02/04/19
	4q-SOP-19-SSMBB-01.A	ASTM D4601	03/11/19
	4q-SOP-19-SSMBB-01.B	ASTM D4601	03/11/19
	4q-SOP-19-SSMBB-01.C	ASTM D4601	03/11/19
	4q-SOP-20-SSMBB-01.A	ASTM D6163	11/5/2020
	4q-SOP-20-SSMBB-01.B	ASTM D6164	11/5/2020
	4q-SOP-20-SSMBB-01.C	ASTM D6164	11/5/2020

APPROVED ASSEMBLIES:

Membrane Type: Liquid Applied Mebrane

Deck Type1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank attached with 8d nails spaced 6" o.c. at wood joists spaced maximum 24" o.c.

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: (Optional) One or more plies of Modified Sopra-G, Soprabase, Soprabase S or Soprabase TG applied loose laid to deck prior to the attachment of vapor barrier.

Anchor Sheet: One layer Soprabase, Soprabase S, mechanically attached with FBC HVHZ nails and tin-caps spaced 6" o.c. in a 4" wide side lab and 6" o.c. in three evenly spaced rows in the field of the sheet.

One or more layers of any of the following insulations.

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	**N/A**	**N/A**
Sopraboard Minimum 1/8" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the anchor sheet in DUOTACK, DUOTACK NEO, Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive in ¾" wide ribbons, Insta-Stik Quik Set Insulation Adhesive in ¾" to 1" 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: (Optional) Elastocol 500, Elastocol Stick, Elastocol Stick Zero at a rate of 1 gal./sq.

Base Sheet: One layer of Sopralene Stick or Colphene Stick, self-adhered to primed insulation layer.

Or

One layer of Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Sopralene 180 Sanded or Sopralene 250 Sanded adhered in COLPLY EF Adhesive at 1.5 – 2.0 gallons/square.

Or

One layer of Colvent Flam 180 TG*, 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 ply/cap membrane.

Ply Sheet: (Optional)	One layer of Sopralene Stick or Colphene Stick, self-adhered. Or One layer of Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Sopralene 180 Sanded or Sopralene 250 Sanded adhered in COLPLY EF Adhesive at 1.5 – 2.0 gallons/square. Or One layer of Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-60 psf. (See General Limitation #7.)

Membrane Type: Liquid Applied Mebrane

Deck Type1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank attached with 8d nails spaced 6" o.c. at wood joists spaced maximum 24" o.c.

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 Modified Sopra-G, Soprabase, Soprabase S or Soprabase TG applied loose laid to deck prior to the attachment of vapor barrier.

Anchor Sheet: One layer Soprabase, Soprabase S, mechanically attached with FBC HVHZ nails and tin-caps spaced 6" o.c. in a 4" wide side lab and 6" o.c. in three evenly spaced rows in the field of the sheet.

One or more layers of any of the following insulations.

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, DensDeck Prime Minimum 1/4" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the anchor sheet in DUOTACK, DUOTACK NEO, Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive in ¾" wide ribbons, Insta-Stik Quik Set Insulation Adhesive in ¾" to 1" 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: (Optional) Alsan RS 276 Primer applied at a rate of 1-1.5 gal./sq.

Base Coat: Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.

Reinforcement: Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.

Top Coat: Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.

Surfacing: (Optional) Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.

Maximum Design Pressure: -60 psf. (See General Limitation #7.)

Membrane Type: Liquid Applied Mebrane

Deck Type 1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank attached with 8d nails spaced 6" o.c. at wood joists spaced maximum 24" o.c.

System Type C: All layers of insulation simultaneously attached.

All General and System Limitations apply.

Slip Sheet: (Optional) One or more plies of Modified Sopra-G, Soprabase, Soprabase S or Soprabase TG applied loose laid to deck.

One or more layers of the following.

Base Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any Approved EPS, XPS Polyisocyanurate Insulation listed in Table 2 (flat or tapered) Minimum 1" thick	**N/A**	**N/A**

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

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Minimum 0.25" thick	**1 & 7**	**1:1.6 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners shall be increased maintaining the same fastener density. (See Roofing Application Standard RAS 117 for fastening details.)

Primer: (Optional) Elastocol 500, Elastocol Stick, Elastocol Stick Zero applied at a rate of 1 gal./sq.

Base Sheet: One layer of Sopralene Stick or Colphene Stick, self-adhered to primed insulation layer.

Or

One layer of Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Sopralene 180 Sanded or Sopralene 250 Sanded adhered in COLPLY EF Adhesive at 1.5 – 2.0 gallons/square.

Or

One layer of Colvent Flam 180 TG*, 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 ply or cap membrane.

Ply Sheet: (Optional)	One layer of Sopralene Stick or Colphene Stick, self-adhered to primed substrate. Or One layer of Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Sopralene 180 Sanded or Sopralene 250 Sanded adhered in COLPLY EF Adhesive at 1.5 – 2.0 gallons/square. Or One layer of Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.
Primer: (Optional)	Alsan RS 222 Primer applied to base or ply sheets at a rate of 1-1.5 gal./sq. Or Alsan RS 276 Primer applied to DensDeck at a rate of 8.2 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-52.5 psf. (See General Limitation #7.)

Membrane Type:	Liquid Applied Mebrane
Deck Type 1I:	Wood, Insulated
Deck Description:	Minimum 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: (Optional)	One or more plies Modified Sopra-G, loose-laid.

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

Insulation Layer(s): (Continued)	Insulation Fasteners (Table 3)	Fastener Density/ft2
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 622 fastened to the deck as described below:
Fastening:	SOPREMA #14 MP Fasteners with Soprafix 2" Seam Plates or Trufast #14 HD Fastener with Trufast 2" Barbed Metal Seam Plate spaced 6" o.c. within the minimum 4" wide, hot-air welded side laps.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-82.5 psf. (See General Limitation #7)

Membrane Type: Liquid Applied Mebrane

Deck Type 1I: Wood, Insulated

Deck Description: Minimum 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 #10 wood screws spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: (Optional) One or more plies of Modified Sopra-G, Soprabase, Soprabase S or Soprabase TG applied loose laid to deck.

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Any Approved EPS, XPS or Polyisocyanurate Insulation listed in Table 2 (flat or tapered)		
Minimum 1" thick	**N/A**	**N/A**
Any Approved High Density Wood Fiberboard listed in Table 2		
Minimum 0.5" thick	**N/A**	**N/A**
Any Approved Perlite Insulation listed in Table 2		
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 Base 622, Soprafix Base 612*, Soprafix Base 613*, Soprafix Base 614*, 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)	One layer of Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Sopralene 180 Sanded or Sopralene 250 Sanded applied in hot asphalt. Or One layer of Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-90 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Mebrane
Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 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: (Optional)	One or more plies Modified Sopra-G, loose-laid.
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: (Optional)	One ply of Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-52.5 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Mebrane
Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 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: (Optional)	One or more plies Modified Sopra-G, loose-laid.
Base Sheet:	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: (Optional)	Modified Sopra-G, Soprabase, Soprabase S, Sopra IV, Sopra VI, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded or Sopralene 250 Sanded applied in hot asphalt.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-52.5 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Membrane
Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 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: (Optional)	One or more plies Modified Sopra-G, loose-laid.
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: (Optional)	One layer of Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Sopralene 180 Sanded or Sopralene 250 Sanded adhered in COLPLY EF Adhesive at 1.5 – 2.0 gallons/square.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-52.5 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Membrane
Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 19/32" CDX plywood or wood plank
System Type E(4):	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: (Optional)	One or more plies of Modified Sopra-G, Soprabase, Soprabase S or Soprabase TG applied loose laid to deck.
Base Sheet:	One ply of Soprafix Base 622 fastened to the deck as described below:
Fastening #1:	Attach base sheet using SOPREMA #14 MP Fasteners with Soprafix 2" Seam Plates or Trufast #14 HD Fasteners with Trufast 2" Barbed Metal 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 SOPREMA #14 MP Fasteners with Soprafix 2" Seam Plates or SOPREMA 2.4" Seam Plates or Trufast #14 HD Fasteners with Trufast 2" Barbed Metal Seam Plates or Trufast 2.4" Scoop Seam Plates and 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.)***
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	See Fastening Requirements above.

Membrane Type:	Liquid Applied Membrane
Deck Type 1:	Wood, Insulated
Deck Description:	Minimum 19/32" plywood 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 SPAX No. 10 x 2½" screws spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: (Optional)	One or more plies Modified Sopra-G, loose-laid.
Base Sheet:	One ply of Soprafix Base 622 fastened to the deck as described below:
Fastening:	SOPREMA #14 MP Fasteners with Soprafix 2" Seam Plates or Trufast #14 HD Fasteners with Trufast 2" Barbed Metal Seam Plates spaced 6" o.c. within the minimum 4" wide, hot-air welded side laps.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-82.5 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Membrane
Deck Type 1:	Wood, Insulated
Deck Description:	Minimum 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: (Optional)	One or more plies Modified Sopra-G, loose-laid.
Base Sheet:	One ply of Soprafix Base 611, Soprafix Base 612, Soprafix Base 613, Soprafix Base 614 fastened to the deck as described below:
Fastening:	SOPREMA #14 MP Fasteners with SOPREMA 2" Seam Plates or Trufast #14 HD Fasteners with Trufast 2" Barbed Metal Seam Plates spaced 6" o.c. within the minimum 4" wide, hot-air welded side laps.
Ply Sheet:	One ply of Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-82.5 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Membrane
Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 19/32” plywood (15/32” for re-roof) or wood plank
System Type E(7):	Non-Insulated, Base sheet mechanically attached.
Deck:	Decking is attached to spans spaced maximum 24” o.c. with #10 wood screws spaced maximum 6” o.c.

All General and System Limitations apply.

Slip Sheet: (Optional)	One or more plies Modified Sopra-G, loose-laid.
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: (Optional)	One ply of Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-90 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Membrane
Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 19/32" plywood (15/32" for re-roof) or wood plank
System Type E(8):	Non-Insulated, Base sheet mechanically attached.
Deck:	Decking is attached to spans spaced maximum 24" o.c. with #10 wood screws spaced maximum 6" o.c.

All General and System Limitations apply.

Slip Sheet: (Optional)	One or more plies Modified Sopra-G, loose-laid.
Base Sheet:	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: (Optional)	Modified Sopra-G, Soprabase, Soprabase S, Sopra IV, Sopra VI, Elastophene HS, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Sopralene 180 Sanded 2.2, Colphene 180 Sanded, Sopralene 180 Sanded or Sopralene 250 Sanded applied in hot asphalt.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-90 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Membrane
Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 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: (Optional)	One or more plies Modified Sopra-G, loose-laid.
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: (Optional)	One layer of Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Sopralene 180 Sanded or Sopralene 250 Sanded adhered in COLPLY EF Adhesive at 1.5 – 2.0 gallons/square.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-90 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Membrane
Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 19/32” plywood or wood plank
System Type E(10):	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 Modified Sopra-G, Soprabase, Soprabase S or Soprabase TG 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 Base 622, Soprafix Base 612*, Soprafix Base 613*, Soprafix Base 614*, 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)	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.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-90 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Membrane
Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 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 4” o.c.

All General and System Limitations apply.

Slip Sheet: (Optional)	One or more plies Modified Sopra-G, loose-laid.
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: (Optional)	One ply of Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-105 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Membrane
Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 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: (Optional)	One or more plies Modified Sopra-G, loose-laid.
Base Sheet:	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: (Optional)	Modified Sopra-G, Soprabase, Soprabase S, Sopra IV, Sopra VI, Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Sopralene 180 Sanded or Sopralene 250 Sanded applied in hot asphalt
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
Maximum Design Pressure:	-105 psf. (See General Limitation #7)

Membrane Type:	Liquid Applied Membrane
Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 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 4" o.c.

All General and System Limitations apply.

Slip Sheet: (Optional)	One or more plies Modified Sopra-G, loose-laid.
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: (Optional)	One layer of Colphene Sanded, Elastophene Sanded 2.2, Elastophene Sanded 3.0, Elastophene HS, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Soprabase, Sopralene 180 Sanded or Sopralene 250 Sanded adhered in COLPLY EF Adhesive at 1.5 – 2.0 gallons/square.
Primer: (Optional)	Alsan RS 222 Primer applied at a rate of 1-1.5 gal./sq.
Base Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 3.91 gal./sq.
Reinforcement:	Alsan RS Fleece is firmly applied and rolled into the base coat while still wet to ensure adhesion and remove air bubbles. Reinforcement shall be placed carefully to avoid wrinkles and maintain alignment.
Top Coat:	Alsan RS 230 Field, Alsan RS 260 LO Field, Alsan RS 230 Flash or Alsan RS 260 LO Flash applied at a rate of 1.95 gal./sq.
Surfacing: (Optional)	Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.
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