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# **Product Evaluation**

RC695 | 0522

**Engineering Services Program** 

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

**Evaluation ID:** RC-695 **Effective Date:** May 1, 2022

**Re-evaluation Date:** May 2026

**Product Name:** SOPREMA Modified Bitumen Roofing Systems

Manufacturer: SOPREMA, Inc.

310 Quadral Drive Wadsworth, OH 44281

(252) 414-3020

#### **General Description:**

- MODIFIED SOPRA G is a fiberglass reinforced modified asphalt base sheet.
- **SOPRABASE S** is a SBS modified bitumen, polyester reinforced, sand-surfaced base sheet.
- SOPRABASE TG is a SBS modified bitumen, polymer reinforced, film-surfaced base sheet.
- ULTRA-STICK NAILBASE is a SBS modified bitumen, fiberglass reinforced, film-surfaced base sheet.
- **SOPRA 4897** is a fiberglass reinforced, smooth surfaced, modified bitumen venting base sheet.
- **SOPRA IV** is a type IV, fiberglass reinforced, smooth surfaced ply sheet.
- SOPRA VI is a type VI, fiberglass reinforced, smooth surfaced ply sheet.
- **SOPRAFIX Base 611** is a non-woven polyester reinforced modified bitumen membrane with a film-surfaced base sheet.
- SOPRAFIX Base 612 is a non-woven polyester reinforced modified bitumen membrane.

- **SOPRAFIX Base 613** is a non-woven polyester reinforced modified bitumen membrane.
- **SOPRAFIX Base 614** is a non-woven polyester reinforced modified bitumen membrane.
- **SOPRAFIX Base 622** is a non-woven polyester reinforced modified bitumen membrane with a 4" or 5" wide side lap with a plastic burn-off on the bottom and sanded on the top.
- **ELASTOPHENE Flam HS** is a woven fiberglass/polyester composite reinforced modified bitumen membrane with fire retardants and plastic burn-off film on both sides.
- **ELASTOPHENE HS Sanded** is a fiberglass/polyester composite reinforced modified bitumen membrane with fine mineral aggregates on both sides.
- **COLVENT TG** is a fiberglass reinforced modified bitumen membrane with 1" wide factory applied heat weldable strips on back side.
- **ELASTOPHENE Flam 2.2** is a fiberglass reinforced modified bitumen membrane with plastic burn-off film on both sides.
- **ELASTOPHENE Flam 3.0** is a fiberglass reinforced modified bitumen membrane with plastic burn-off film on both sides.
- **ELASTOPHENE Flam Stick** is a self-adhered, sanded surfaced, fiberglass reinforced membrane.
- **ELASTOPHENE PS 2.2** is a fiberglass reinforced modified bitumen membrane with a plastic burn-off film for heat weld bonding to the top side.
- **ELASTOPHENE PS 3.0** is a fiberglass reinforced modified bitumen membrane with a plastic burn-off film for heat weld bonding to the top side.
- **ELASTOPHENE Sanded 2.2** is a fiberglass reinforced modified bitumen membrane sanded on both sides.
- **ELASTOPHENE Sanded 3.0** is a fiberglass reinforced modified bitumen membrane sanded on both sides.
- **ELASTOPHENE SP 2.2** is a fiberglass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top.
- **ELASTOPHENE SP 3.0** is a fiberglass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top.
- **ELASTOPHENE Stick** is a self-adhered, sanded surfaced, fiberglass reinforced membrane.
- **ELASTOPHENE ULTRA-STICK** is a self-adhered fiberglass reinforced membrane.
- **COLVENT 180 TG** is a polyester reinforced, modified bitumen membrane with 1" wide factory applied heat weldable strips on back side.
- **COLVENT Flam 180 TG** is a polyester reinforced, modified bitumen membrane with 1" wide factory applied heat weldable strips on back side and a plastic burn-off film on both sides.
- **SOPRALENE 180 PS 2.2** is a non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top.
- **SOPRALENE 180 PS 3.0** is a non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the top and sanded on the bottom.
- **SOPRALENE 180 Sanded** is a non-woven polyester reinforced modified bitumen membrane sanded on both sides.
- **SOPRALENE 180 Sanded 2.2** is a non-woven polyester reinforced modified bitumen membrane sanded on both sides.
- **SOPRALENE 180 SP 3.0** is a non-woven polyester reinforced modified bitumen membrane with a plastic burn-off on the bottom and sanded on the top.

- **SOPRALENE 180 SP 3.5** is a non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top.
- **SOPRALENE Flam 180** is a non-woven polyester reinforced modified bitumen with plastic burn-off film on both sides.
- **SOPRALENE Flam Stick** is a self-adhered polyester reinforced membrane with a release film on the bottom and sanded on the top.
- **SOPRALENE Stick** is a self-adhered polyester reinforced membrane with a release film on the bottom and sanded on the top.
- **SOPRALENE ULTRA-STICK** is a self-adhered polyester reinforced membrane.
- **SOPRALENE 250 Sanded** is a non-woven polyester reinforced modified bitumen membrane sanded on both sides.
- **SOPRALENE 250 SP** is a non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top.
- **SOPRALENE Flam 250** is a non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on both sides.
- **ELASTOPHENE Flam HS FR GR** is a woven fiberglass/polyester composite reinforced modified bitumen membrane with fire retardants and plastic burn-off film on the bottom and coated granules on the top.
- **ELASTOPHENE HS FR GR** is a woven fiberglass/polyester composite reinforced modified bitumen membrane with fire retardants and fine mineral aggregate on the bottom and coated granules on the top.
- **ELASTOPHENE Flam FR GR** is a fiberglass reinforced modified bitumen membrane with fire retardants and plastic burn-off film on the bottom and coated granules on the top.
- **ELASTOPHENE Flam LS FR GR** is a fiberglass reinforced modified bitumen membrane with fire retardants and plastic burn-off film on the bottom and coated granules on the top.
- **ELASTOPHENE FR GR** is a fiberglass reinforced modified bitumen membrane with fire retardants and sanded on the bottom and coated granules on the top.
- **ELASTOPHENE LS FR GR** is a fiberglass reinforced modified bitumen membrane with fire retardants and sanded on the bottom and coated granules on the top.
- **ELASTOPHENE Stick FR GR** is a self-adhered, granule surfaced, fiberglass reinforced membrane.
- **ELASTOPHENE ULTRA-STICK FR GR** is a self-adhered, granule surfaced, fiberglass reinforced membrane.
- **SOPRALENE 180 FR GR** is a non-woven polyester reinforced modified bitumen membrane with fire retardants and sanded on the bottom coated granules on the top.
- SOPRALENE Flam 180 FR GR is a non-woven polyester reinforced modified bitumen membrane with fire retardants and plastic burn-off film on the bottom and coated granules on the top.
- **SOPRALENE Flam 180 GR** is a non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and coated granules on the top.
- **SOPRALENE ULTRA-STICK FR GR** is a self-adhered, granule surfaced, polyester reinforced membrane.
- **SOPRALENE 250 FR GR** is a non-woven polyester reinforced modified bitumen membrane with fire retardants and sanded on the bottom and coated granules on the top.

- **SOPRALENE Flam 250 FR GR** is a non-woven polyester reinforced modified bitumen membrane with fire retardants and plastic burn-off film on the bottom and coated granules on the top.
- **UNILAY** is a non-woven polyester reinforced modified bitumen membrane with fire retardants and coated granules on both sides.
- **SOPRALAST 50 TV Alu** is a fiberglass reinforced modified bitumen sheeting faced with aluminum foil.
- **SOPRALAST 50 TV Alu Sanded** is a fiberglass reinforced modified bitumen sheeting sanded on the bottom and faced with aluminum foil.

#### **Limitations and Installation:**

#### **General installation Requirements:**

All IRC and the IBC requirements must be satisfied, and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

**Positive Drainage:** Roof decks, in which this product is to be installed upon must be provided with positive drainage. A minimum roof slope after construction of 1/4" per foot is recommended.

Prime decks were required, in accordance with requirements and recommendations of the primer and deck manufacturer (if applicable). For re-roofing and re-cover applications, prime existing roof surfaces as necessary with an asphalt primer meeting ASTM D-41 specification and allow to dry prior to installing the SOPREMA roofing system.

#### Installation over an Existing Roof Covering (Roof Recover):

**Inspection of Roof Covering Recover Installation:** Inspection of the roof covering recover installation must be by a TDI appointed engineer. The TDI appointed engineer must determine if the roof framing can support the combined weight of the existing roof covering and the roof covering recover.

Installation of a new roof covering over an existing roof covering is limited to mechanically attached roof coverings. A fully adhered roof covering must not be installed over an existing roof covering.

**Roof Covering Replacement versus Roof Covering Recover**: All existing roof coverings must be completely removed, and a new roof covering installed if any of the following conditions occur:

- The existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for the additional roof covering.
- The existing roof has two or more applications of any type of roof covering.

**Roof Framing:** The maximum allowable spacing of the roof framing must be as specified in the evaluation report.

**Roof Deck:** The existing roof deck must be as specified in each assembly listed in this evaluation report. The underside of the roof deck must be examined by the TDI appointed engineer for corrosion or deterioration. If corrosion exists, then it must be treated with a rust inhibitor. A fastener withdrawal resistance test must be conducted in the corroded or deteriorated area to determine if the withdrawal resistance of the fastener complies with the minimum fastener requirements for the roof covering recover application. If the tested fastener fails to comply, then the deteriorated roof deck must be replaced.

**Fastener Withdrawal Resistance:** The fastener withdrawal resistance must be conducted in accordance with ANSI/SPRI FX-1-2006 and this evaluation report.

Fasteners used for the installation of the roof covering recover to the existing roof deck must be as specified in the Installation Instructions section of this evaluation report. For the withdrawal test, the fasteners must be installed in the existing roof deck as required for the roof covering recover installation. A TDI appointed engineer must review the data to verify the integrity of the existing roof deck and to compare results of the withdrawal tests with the minimum fastener requirements for the roof covering recover application.

The TDI appointed engineer must document all test results, including the locations on the roof surface where the tests are performed. A minimum of ten withdrawal resistance tests are required for a roof area up to 50,000 square feet (a minimum of 50 percent of the tests must be conducted at the perimeter and the corners). Five additional tests are required for each additional 50,000 square feet of roof area or portion thereof (a minimum of 50 percent of the tests must be conducted at the perimeter and the corners). The tests must be located evenly spread across the surface of the roof. At least one withdrawal test must be performed on each roof level if the roof consists of multiple levels.

The withdrawal resistance of each tested fastener must comply with the minimum fastener requirements for the roof covering recover application. If a tested fastener fails to comply, then the TDI appointed engineer must examine that area for deterioration of the roof deck by removing the existing roof covering in that area. If that area of the roof deck has deteriorated, then the deteriorated roof deck must be replaced.

**Existing Roof Covering Preparation:** The existing roof covering must be prepared to receive the roof covering recover as specified in the SOPREMA installation instructions.

The existing roof covering surface must be dry and free of dirt and debris. If the existing roof covering is gravel surfaced, then the loose gravel must be completely removed. The surface of the existing roof covering must be relatively smooth.

If the existing roof covering has blisters, buckles, ridges, folds, or other deformations, then they must be removed, and the surface patched to provide a smooth surface. If the existing roof covering has loose fasteners, then the existing membrane must be cut open, the loose fasteners removed, and the surface patched to provide a smooth surface.

**Roof Covering Recover Installation:** Installation of the roof covering recover must be specified in the Installation Instructions section of this evaluation report.

#### The Following Notes Apply to the Systems in this Evaluation Report:

- 1. The roof decking must meet or exceed the uplift requirements of the IRC and IBC along with applicable Texas Revisions adopted by TDI. Install as required for resistance to wind loads.
- 2. Roof framing members must be spaced a maximum of 24" o.c.
- 3. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads must expand as noted in the manufacturer's published instructions.
  - Hot asphalt at a full coverage rate of 25-30 lbs/sq.
  - DUOTACK at a continuous rate of 0.5" to 0.75" wide ribbons, max. 12" o.c.
    - o **Note:** DUOTACK 365 may be used anywhere DUOTACK is referenced.
  - DUOTACK 365 at a continuous rate of 0.5" to 0.75" wide ribbons, max. 12" o.c.
  - DUOTACK SPF at a continuous rate of 2.5" wide ribbons, max. 12" o.c.
    - Note: DUOTACK SPF may be used for insulation securement anywhere DUOTACK is referenced, except directly to existing gypsum decks, in recover applications over existing smooth-surfaced asphaltic built-up roof (BUR), or when used to adhere expanded polystyrene.
  - Polyset CR-20 at a continuous rate of 2.5" to 3.5" wide ribbons, max. 12" o.c.
  - Trufast Roofing Adhesive at a continuous rate of 0.75" to 1" wide ribbons, max. 12" o.c.
  - **Note:** When multiple layers of insulation and/or coverboard are installed in ribbon-applied adhesive, boards shall be staggered from layer-to-layer.
  - **Note:** The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.

4. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted within this evaluation report.

#### 5. Product Evaluation Index

		Аттаснмі	ENT REQUIREMENTS FOR WIND U	PLIFT RESISTANCE	
Table	Deck	Assembly No.	Application	Description	Page
1A	Wood	W-1 & W-2	New, Reroof (Tear-Off) or Recover	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	10-11
1B	Wood	W-3 through W-7	New, Reroof (Tear-Off) or Recover	Mechanically Attached Insulation, Bonded Roof Cover	12-13
1C	Wood	W-8 & W-9	New, Reroof (Tear-Off) or Recover	Insulated, Mechanically Attached Soprafix, Bonded Roof Cover	14
2A	Steel	S-1 through S-6	New, Reroof (Tear-off) or Recover	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	15
3A	Concrete	C-1 through C-5	New or Reroof (Tear-off)	Bonded Insulation, Bonded Roof Cover	16

6. Unless otherwise noted, fasteners and stress plates for insulation attachment shall be as follows. Fasteners shall be sufficient length for the following engagements:

#### Wood Deck:

OMG #14 Roofgrip with AccuTrac Flat Bottom Plates, OMG Heavy Duty with OMG 3" Galvalume Steel Plates, Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 plates or Dekfast PLT-R-3 plates, Trufast #14 HD Fasteners or SOPREMA #14 MP Fasteners with Trufast 3" Metal Insulation Plates or SOPREMA 3" Metal Insulation Plates or SOPREMA #14 Fasteners with SOPREMA 3" Insulation Plates. Minimum 0.75" plywood penetration or minimum 1-inch wood plank embedment

#### Steel Deck:

OMG #12 Standard Roofgrip or #14 Roofgrip with Recessed Metal Plates or AccuTrac Flat Bottom Plates, OMG #12 Standard Roofgrip or OMG Heavy Duty with OMG 3" Galvalume Steel Plates, Dekfast DF-#12-PH3 or Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 plates or Dekfast PLT-R-3 plates, Trufast #12 DP Fasteners, SOPREMA #12 DP Fasteners or Trufast #14 HD Fasteners or SOPREMA #14 MP Fasteners with Trufast 3" Metal Insulation Plates or SOPREMA 3" Metal Insulation Plates or SOPREMA #12 Fasteners or SOPREMA #14 Fasteners with SOPREMA 3" Insulation Plates. Minimum 0.75" steel penetration and engage the top flute of the steel deck.

- Structural Concrete Deck:
  - OMG #14 Roofgrip with Recessed Metal Plates or AccuTrac Flat Bottom Plates, OMG Heavy Duty, or CD-10 with OMG 3" Galvalume Steel Plates, Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 plates or Dekfast PLT-R-3 plates, Trufast #14 HD Fasteners, Trufast Fluted Concrete Nails or SOPREMA #14 MP Fasteners with Trufast 3" Metal Insulation Plates or SOPREMA 3" Metal Insulation Plates or SOPREMA #14 Fasteners with SOPREMA 3 in. Insulation Plates. Minimum 1" embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions
- 7. Approved membrane / adhesive combinations, unless otherwise noted, refer to the following:

		SOPREMA MEMBRANE / ADHESIVE COMBINATIONS			
Reference	Layer	Material	Application		
SBS-CA3	Base or Ply:	ELASTOPHENE HS Sanded, ELASTOPHENE Sanded 2.2, ELASTOPHENE Sanded 3.0, ELASTOPHENE PS 2.2*, ELASTOPHENE PS 3.0*, SOPRALENE 180 Sanded 2.2, SOPRALENE 180 Sanded, SOPRALENE 180 PS 2.2*, SOPRALENE 180 PS 3.0*, SOPRALENE 250 Sanded	COLPLY EF Adhesive at 1.5 to 2.5 gal./sq.		
	Cap:	ELASTOPHENE HS FR GR, ELASTOPHENE LS FR GR, ELASTOPHENE FR GR, SOPRALENE 180 FR GR, SOPRALENE 250 FR GR			
SBS-CA4	Base or Ply:	ELASTOPHENE HS Sanded, ELASTOPHENE Sanded 2.2, ELASTOPHENE Sanded 3.0, <b>ELASTOPHENE PS 2.2*</b> , <b>ELASTOPHENE PS 3.0*</b> , SOPRALENE 180 Sanded 2.2, SOPRALENE 180 Sanded, <b>SOPRALENE 180 PS 2.2*</b> , <b>SOPRALENE 180 PS 3.0*</b> , SOPRALENE 250 Sanded	COLPLY Adhesive at 1.5 to 2.5 gal./sq.		
	Cap:	ELASTOPHENE HS FR GR, ELASTOPHENE LS FR GR, ELASTOPHENE FR GR, SOPRALENE 180 FR GR, SOPRALENE 250 FR GR			
BP-AA	Base or Ply:	MODIFIED SOPRA G, SOPRABASE S, SOPRA IV, SOPRA VI	Hot asphalt at 20-40 lbs./sq.		
SBS-AA	Base or Ply:	ELASTOPHENE HS Sanded, ELASTOPHENE Sanded 2.2, ELASTOPHENE Sanded 3.0, ELASTOPHENE PS 2.2*, ELASTOPHENE PS 3.0*, SOPRALENE 180 Sanded 2.2, SOPRALENE 180 Sanded, SOPRALENE 180 PS 2.2*, SOPRALENE 180 PS 3.0*, SOPRALENE 250 Sanded	Hot asphalt at 20-40 lbs./sq.		
	Cap:	ELASTOPHENE HS FR GR, ELASTOPHENE LS FR GR, ELASTOPHENE FR GR, SOPRALENE 180 FR GR, SOPRALENE 250 FR GR			
SBS-TAP	Base:	COLVENT TG, COLVENT 180 TG, COLVENT Flam 180 TG*	Torch-applied		
SBS-TAF	Base or Ply:	<b>ELASTOPHENE Flam HS*, ELASTOPHENE Flam 2.2*, ELASTOPHENE Flam 3.0*,</b> ELASTOPHENE SP 2.2, ELASTOPHENE SP 3.0, <b>SOPRALENE Flam 180*,</b> SOPRALENE 180 SP 3.0, SOPRALENE Flam <b>250*</b> , SOPRALENE 250 SP			
	Cap:	ELASTOPHENE Flam HS FR GR, ELASTOPHENE Flam LS FR GR, ELASTOPHENE Flam FR GR, SOPRALENE Flam 180 GR, SOPRALENE Flam 180 FR GR, SOPRALENE Flam 250 FR GR, SOPRALAST 50 TV Alu			
SBS-SA1	Base or Ply:	ELASTOPHENE Stick, <b>ELASTOPHENE Flam Stick*</b> , SOPRALENE Stick, <b>SOPRALENE Flam Stick*</b>	Self-adhering		
	Cap:	ELASTOPHENE Stick FR GR, ELASTOPHENE Stick HR FR GR			
Note:	*Has a pol	yolefin burn-off film top surface which require installation of a torch-applied me	embrane overtop.		

8. Vapor barrier options for use over **structural concrete decks** followed by bonded insulation carry the following Maximum Design Pressure (MDP) limitations. The lesser of the MDP listings below vs. that for the selected assembly from **Table 3A** applies

ONE-PLY V	APOR BARRIER OPTIONS	FOR STRUCTURAL CONCRETE DECKS; FO	DLLOWED BY BONDED INSULATION PER	TABLE 3A
Deck	Primer	Vapor Barrier	Insulation Adhesive	MDP (psf)
2,500 psi structural concrete	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3 (granule top surface)	DUOTACK	-195.0
2,500 psi structural concrete	ASTM D41	SBS-TAF (granule top surface)	DUOTACK	-195.0
2,500 psi structural concrete	ELASTOCOL Stick Zero	SOPRAVAP'R, self-adhering	DUOTACK	-240.0
2,500 psi structural concrete	ELASTOCOL Stick, ELASTOCOL Stick Zero	SBS-SA1 (sanded top surface)	DUOTACK	-315.0

TWO-PLY VAPOR BARRIER OPTIONS FOR STRUCTURAL CONCRETE DECKS; FOLLOWED BY BONDED INSULATION PER TABLE 3A									
Deck	Primer	Vapor	Barrier	Insulation	MDD (mas)				
Deck	Primer	Base	Сар	Adhesive	MDP (psf)				
2,500 psi structural concrete	ASTM D41	BP-AA	BP-AA	DUOTACK	-270.0				

# 9. The following products are interchangeable within the scope of this Evaluation Report:

	Acci	PTABLE ALTERNATES
Manufacturer	Listed Product	Alternate
SOPREMA	SOPRAFIX BASE 611	SOPRAFIX BASE 612, SOPRAFIX BASE 613, SOPRAFIX 614, SOPRALENE FLAM 180, SOPRALENE FLAM 250
SOPREMA	SOPRAFIX BASE 612	SOPRAFIX BASE 614, SOPRALENE FLAM 180, SOPRALENE FLAM 250
SOPREMA	SOPRAFIX BASE 613	SOPRAFIX BASE 612, SOPRAFIX BASE 614, SOPRALENE FLAM 180, SOPRALENE FLAM 250
SOPREMA	SOPRAFIX BASE 614	SOPRALENE FLAM 250
SOPREMA	SOPRAFIX BASE 622	SOPRALENE 180 Sanded, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, SOPRALENE 250 Sanded, SOPRALENE 250 SP
Georgia-Pacific Gypsum, LLC	DensDeck Prime	DensDeck StormX Prime Roof Board

### **Limitations and Installation:** Installation must be in accordance with the following assemblies:

#### TABLE 1A: SOPREMA MODIFIED BITUMEN - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER WOOD DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER **Base Insulation Layer Top Insulation Layer Roof Cover (Note 8)** Assembly **MDP** Substrate Attach No. (psf) Type Fastener Attach Type **Base** Ply Cap (Note 3) Min. 0.125" SOPRABOARD, Min. 0.25" DensDeck, Trufast Versa-Fast DEXcell FA Plates w/ min. (1) 1 per 2.7 Glass Mat Roof Min. 19/32" Min. 2" H-BP-AA, (Optional) #1 Versa-Fast Fastener ft<sup>2</sup> (12 Board or SBS-AA, OSB or Shield, DUOTACK SBS-AA, BP-AA, SBS--45.0 (W-1) installed into the per 4x8 ft SECUROCK SBS-TAF plywood SOPRA-ISO r SBS-TAF AA, SBS-TAF Gypsum Fiber center-hole of the board) Versa-Fast Plates Roof Board or Min. 7/16" DEXcell Cement Roof Board

TABLE 1A (CONTINUED): SOPREMA MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER WOOD DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER											
Assembly No.		E	Base Insulation Layer		Top Insulation	on Layer	Roc	of Cover (Note	3)	MDP (psf)	
	Substrate	Туре	Fastener	Attach	Туре	Attach (Note 3)	Base	Ply	Сар		
#2 (W-2)	Min. 15/32" plywood	Min. 2" H- Shield, SOPRA-ISO r	Trufast Versa-Fast Plates w/ min. (2) Versa-Fast Fasteners, Trufast #14 HD or Soprema #14 MP Fasteners installed 180° into the holes of the Versa-Fast Plates	1 per 1.8 ft² (18 per 4x8 ft board)	Min. 0.125" SOPRABOARD, Min. 0.25" DensDeck, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 7/16" DEXcell Cement Roof Board	DUOTACK	BP-AA, SBS- AA, SBS-TAF	(Optional) BP- AA, SBS-AA, SBS-TAF	SBS-AA, SBS-TAF	-67.5	

					W CONSTRUCTION, RE	•	•	OVER		
Assembly			Base Insulation	To	op Insulation Layer		Roo	MDP		
No.	Substrate	Slip Sheet	and/or Thermal Barrier Layer(s)	Туре	Fastener	Attach	Base	Ply	Сар	(psf)
#3 (W-3)	Min. 19/32" plywood	(Optional) MODIFIED SOPRA G, loose-laid	(Optional) One or more layers, any combination, loose-laid	Min. 0.125" SOPRABOARD or min. 0.25" DensDeck or SECUROCK Gypsum-Fiber Roof Board	#14 Roofgrip w/ AccuTrac Flat Bottom plates, Soprema #14 MP Fasteners w/ Soprema 3" Metal Insulation Plates or Trufast #14 HD w/ Trufast 3" Metal Insulation Plates	1 per 2.0 ft² (16 per 4x8 ft board)	SBS-CA3, SBS-CA4	(Optional) SBS-CA3, SBS-CA4	SBS-CA3, SBS-CA4	-45.0
#4 (W-4)	Min. 15/32" plywood	(Optional) MODIFIED SOPRA G, loose-laid	(Optional) One or more layers, any combination, loose-laid	Min. 0.5"  DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16" DEXcell Cement Roof Board or min. 0.5" SECUROCK Cement Roof Board	Soprema #12 DP w/ Soprema 3" Metal Insulation Plates	1 per 1.6 ft² (10 per 4x4 ft board)	SBS-CA3, SBS-CA4	(Optional) SBS-CA3, SBS-CA4	SBS-CA3, SBS-CA4	-67.5
#5 (W-5)	Min. 19/32" plywood	(Optional) MODIFIED SOPRA G, loose-laid	(Optional) One or more layers, any combination, loose-laid	Min. 0.125" SOPRABOARD or min. 0.25" DensDeck or SECUROCK Gypsum-Fiber Roof Board	#14 Roofgrip w/ AccuTrac Flat Bottom plates, Soprema #14 MP Fasteners w/ Soprema 3" Metal Insulation Plates or Trufast #14 HD w/ Trufast 3" Metal Insulation Plates	1 per 2.0 ft² (16 per 4x8 ft board)	BP-AA, SBS- AA, SBS- TAP, SBS- TAF	(Optional) BP-AA, SBS- AA, SBS- TAF	SBS-AA, SBS-TAF	-45.0

	TABLE 1B (CONTINUED): SOPREMA MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  WOOD DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER											
Assembly No.			Base Insulation	•	Top Insulation Layer				8)	MDP		
	Substrate	Slip Sheet	and/or Thermal Barrier Layer(s)	Туре	Fastener	Attach	Base	Ply	Сар	(psf)		
#6 (W-6)	Min. 19/32" plywood	(Optional) MODIFIED SOPRA G, loose-laid	(Optional) One or more layers, any combination, loose-laid	Min. 0.125" SOPRABOARD	Dekfast DF-#15-PH3 w/ Dekfast PLT-R-3 plates or Soprema #15 Fasteners w/ Soprema 3" Round Insulation Plates	1 per 1.33 ft² (24 per 4x8 ft board)	SBS-TAF	(Optional) SBS-TAF	SBS-TAF	-75.0		
#7 (W-7)	Min. 15/32" plywood	(Optional) MODIFIED SOPRA G, loose-laid	(Optional) One or more layers, any combination, loose-laid	Min. 0.5" DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16" DEXcell Cement Roof Board or min. 0.5" SECUROCK Cement Roof Board	Soprema #12 DP w/ Soprema 3" Metal Insulation Plates	1 per 1.6 ft² (10 per 4x4 ft board)	SBS-AA, SBS-TAF	(Optional) SBS-AA, SBS-TAF	SBS-AA, SBS-TAF	-67.5		

TABLE 1C: SOPREMA MODIFIED BITUMEN – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER WOOD DECK, INSULATED, MECHANICALLY ATTACHED SOPRAFIX, BONDED ROOF COVER										
Accombly No	Cubatuata	Insulation		Top Insulation Layer		Roof Cover	(Note 8)	MDP		
Assembly No. Substrate		Insulation	Base	Fastener	Spacing	Ply	Сар	(psf)		
#8 (W-8)	Min. 19/32" plywood	Any combination, prelim attach	SOPRAFIX Base 611, 612, 614 or 622	Trufast #14 HD w/ Trufast 2" Barbed Metal Seam Plates or Soprema #14 MP Fasteners w/ Soprafix 2-inch Seam Plates	12" o.c. within the 4" wide, heat-welded side laps	(Optional) SBS-TAF	SBS-TAF	-52.5		
#9 (W-9)	Min. 19/32" plywood	Any combination, prelim attach	SOPRAFIX Base 611, 612, 614 or 622	Trufast #14 HD w/ Trufast 2" Barbed Metal Seam Plates or Soprema #14 MP Fasteners w/ Soprafix 2-inch Seam Plates	6" o.c. within the 4" wide, heat-welded side laps	(Optional) SBS-TAF	SBS-TAF	-82.5		

			PREMA MODIFIED BITU ANICALLY ATTACHED B		•	•	•			
Accombbs		Ва	se Insulation Layer		Top Insulation Layer		R	MDP		
Assembly No.	Substrate	Туре	Fastener	Attach	Туре	Attach (Note 3)	Base	Ply	Сар	(psf)
#10 (S-1)	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5" ACFoam-II, SOPRA-ISO s, H- Shield, SOPRA- ISO r	Soprema #14 MP w/ Soprema 3" Metal Insulation Plates	1 per 2.0 ft²	Min. 0.125" SOPRABOARD	DUOTACK	SBS-CA3, SBS-CA4	(Optional) SBS- CA3, SBS-CA4	SBS-CA3, SBS-CA4	-45.0
#11 (S-2)	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5" ACFoam-II, SOPRA-ISO s	Soprema #14 MP w/ Soprema 3" Metal Insulation Plates	1 per 2.0 ft <sup>2</sup>	Min. 0.25" DensDeck Prime	DUOTACK	SBS-CA3, SBS-CA4	(Optional) SBS- CA3, SBS-CA4	SBS-CA3, SBS-CA4	-45.0
#12 (S-3)	Min. 22 ga., Type B, Grade 33 steel	Min. 2.0" ACFoam-II, SOPRA-ISO s, H- Shield, SOPRA- ISO r, Ultra-Max, SOPRA-ISO+ x	Soprema #14 MP w/ Soprema 3" Metal Insulation Plates	1 per 1.6 ft²	(Optional) Min. 0.25" DensDeck Prime	DUOTACK	SBS-CA3, SBS-CA4	(Optional) SBS- CA3, SBS-CA4	SBS-CA3, SBS-CA4	-82.5
#13 (S-4)	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5" ACFoam-II, SOPRA-ISO s, H- Shield, SOPRA- ISO r	Soprema #14 MP w/ Soprema 3" Metal Insulation Plates	1 per 2.0 ft²	Min. 0.125" SOPRABOARD	Hot asphalt	SBS-CA3, SBS-CA4	(Optional) SBS- C3, SBS-CA4	SBS-AA, SBS-CA3, SBS-CA4, SBS-TAF	-45.0
#14 (S-5)	Min. 22 ga., Type B, Grade 33 steel	Min. 1.5" ACFoam-II, SOPRA-ISO s, H- Shield, SOPRA- ISO r	Soprema #14 MP w/ Soprema 3" Metal Insulation Plates	1 per 2.0 ft²	Min. 0.5-inch Structodek HD with Primed Red Coating	Hot asphalt	SBS-CA3, SBS-CA4	(Optional) SBS- C3, SBS-CA4	SBS-AA, SBS-CA3, SBS-CA4, SBS-TAF	-45.0
#15 (S-6)	Min. 22 ga., Type B, Grade 33 steel	Min. 2.0" ACFoam-II, SOPRA-ISO s, H- Shield, SOPRA- ISO r, Ultra-Max, SOPRA-ISO+ x	Soprema #14 MP w/ Soprema 3" Metal Insulation Plates	1 per 1.6 ft²	(Optional) Min. 0.25" SOPRABOARD, DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	DUOTACK	SBS-TAF	(Optional) SBS- TAF	SBS-AA, SBS-TAF	-82.5

# TABLE 3A: SOPREMA MODIFIED BITUMEN – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER REFER TO NOTE 8 FOR VAPOR BARRIER OPTIONS

			Base Insulation Lay	er	Top Insulation	n Layer	R	oof Cover (Note 7)		
Assembly No.	Substrate	Prime	Туре	Attach (Note 3)	Туре	Attach (Note 3)	Base	Ply	Сар	MDP (psf)
#16 (C-1)	Structural concrete; Minimum 2,500 psi	None	(Optional) Min. 1.5" ACFoam- II, SOPRA-ISO s, ACFoam-III, SOPRA-ISO + s, ENRGY 3, H- Shield, SOPRA-ISO r, H-Shield CG, SOPRA-ISO + r, Multi- Max FA3, SOPRA-ISO x, UltraMax, SOPRA-ISO + x	DUOTACK	Min. 0.125" SOPRABOARD	DUOTACK	SBS-CA3, SBS-CA4	None	SBS-CA3, SBS-CA4	-382.5
#17 (C-2)	Structural concrete; Minimum 2,500 psi	None	(Optional) Min. 1.5" ACFoam- II, SOPRA-ISO s, H-Shield, SOPRA-ISO r, Multi-Max FA3, SOPRA-ISO x, UltraMax, SOPRA-ISO + x	DUOTACK	(Optional) Min. 0.25" DensDeck Prime	DUOTACK	SBS-CA3, SBS-CA4	(Optional) SBS- CA3, SBS-CA4	SBS-CA3, SBS-CA4	-315.0
#18 (C-3)	Structural concrete; Minimum 2,500 psi	D41	Min. 1.5" ACFoam-II, SOPRA- ISO s, ENRGY 3, H-Shield, SOPRA-ISO r, Multi-Max FA3, SOPRA-ISO x	Hot asphalt	Min. 0.125" SOPRABOARD	Hot asphalt	SBS-TAP, SBS-TAF	(Optional) SBS- AA, SBA-SA1, SBS-TAF	SBS-AA, SBS-SA1, SBS-TAF	-155.0
#19 (C-4)	Structural concrete; Minimum 2,500 psi	None	(Optional) Min. 1.5" ACFoam- II, SOPRA-ISO s, ACFoam-III, SOPRA-ISO + s, ENRGY 3, H- Shield, SOPRA-ISO r, H-Shield CG, SOPRA-ISO + r, Multi- Max FA3, SOPRA-ISO x, UltraMax, SOPRA-ISO + x	DUOTACK	Min. 0.125" SOPRABOARD	DUOTACK	BP-AA, SBS- AA	None	SBS-AA, SBS-TAF	-382.5
#20 (C-5)	Structural concrete; Minimum 2,500 psi	None	(Optional) Min. 1.5" ACFoam- II, SOPRA-ISO s, H-Shield, SOPRA-ISO r, Multi-Max FA3, SOPRA-ISO x, UltraMax, SOPRA-ISO + x	DUOTACK	Min. 0.25" DensDeck Prime	DUOTACK	SBS-TAF	(Optional) SBS- TAF	SBS-AA, SBS-TAF	-315.0

**Note:** Keep the manufacturer's installation instructions at the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.