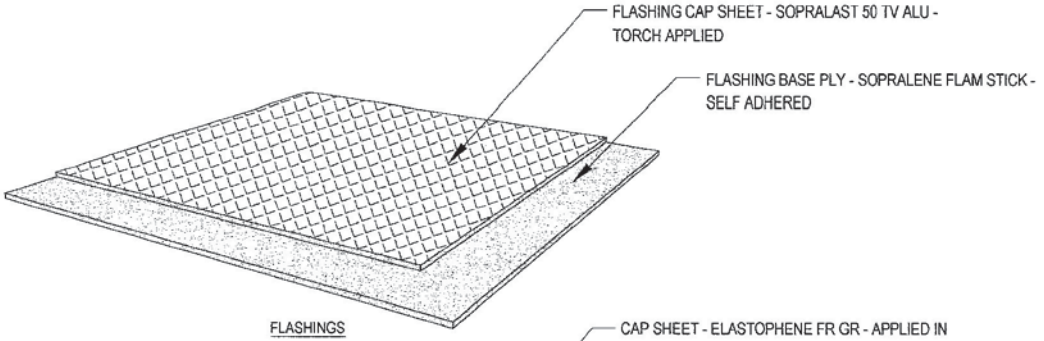
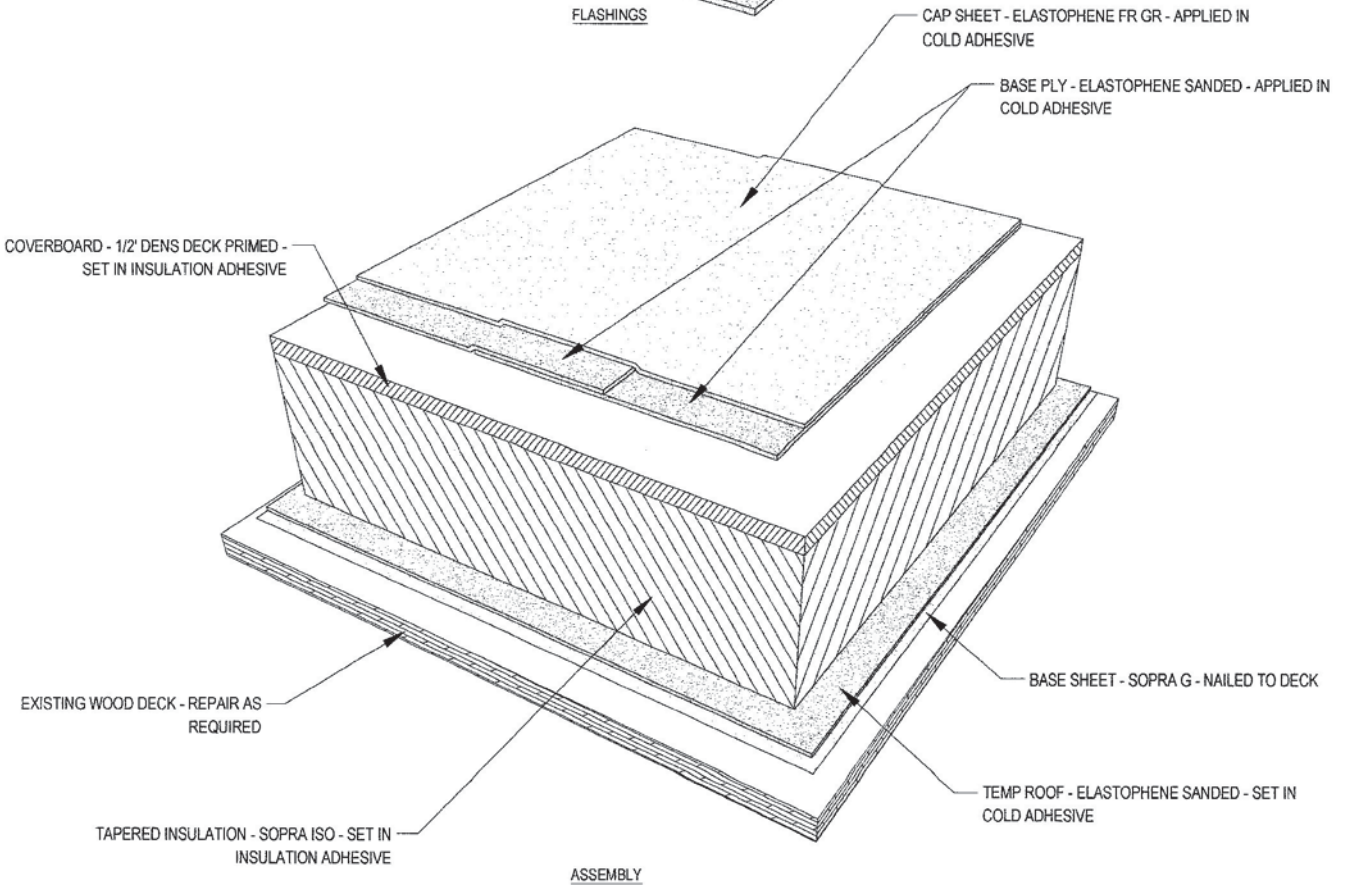


FLASHINGS



ASSEMBLY

NOTES:

1. SOPREMA DETAIL DRAWINGS: REFER TO SOPREMA AND OTHER RELATED PUBLISHED DOCUMENTATION, PRODUCT DATA SHEETS (PDS) AND SAFETY DATA SHEETS (SDS) FOR ADDITIONAL INFORMATION. ALL DETAIL DRAWINGS AND RELATED INSTALLATION GUIDELINES ARE PROVIDED BY SOPREMA FOR THE SOLE PURPOSE OF ISSUING A SOPREMA WARRANTY. ACCORDINGLY, THE DETAIL DRAWINGS ARE NOT OFFERED, AND SHOULD NOT BE CONSIDERED, AS A SUBSTITUTE FOR PROFESSIONAL DESIGN SERVICES.
2. HOT WORK: THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING APPROPRIATE CONDITIONS TO UTILIZE HEAT-WELDING EQUIPMENT. REFER TO THE NRCA CERTA RECOMMENDATIONS, LOCAL CODES AND BUILDING OWNER'S REQUIREMENTS FOR HOT WORK OPERATIONS.
3. PRIMER: WHERE NOT SHOWN OR INDICATED ON DETAIL DRAWINGS, REFER TO MATERIAL PRODUCT DATA SHEETS FOR PRIMER APPLICATION REQUIREMENTS.

SOPREMA®

US CORPORATE ADDRESS
310 QUADRAL DRIVE
WADSWORTH, OHIO 44281
www.soprema.us
Tel:330.334.0066

PROJECT: MUSEUM ROOF REPLACEMENT @ SAN MARCOS DE APALACHE STATE PARK - WAKULLA COUNTY, FLORIDA

DRAWN BY: SOPREMA TECHNICAL SUPPORT, GGALLOWAY

NO.:	REVISION:	DATE:

TITLE:

2 PLY SBS MEMBRANE, INSULATED ROOF ASSEMBLY

DATE: 06.23.2014

SCALE: NTS

DRAWING NUMBER:
US.RSBS.01.01

PRODUCT DATA SHEET

PDS-100
Rev 02/09

SOPRA-G

SOPRA-G (02)

Order No. 00103

DESCRIPTION

Sopra G is a ASTM 4601, Type II and G2 fiberglass base sheets. The Sopra G base sheet is used as an anchor sheet for hot mopped, cold adhesive or heat welded roof assemblies. This base sheet is suitable for use to form BUR roof assemblies or is used in combination with SBS membranes when they are completely adhered either by hot mopping or cold adhesive. See published Specifications and Approved Details.

COMPOSITION, PACKAGING & PROPERTIES

Product/Property	Sopra-G
Reinforcement	Fiberglass
Bitumen	Oxidized
Topside	Sanded
Underside	Sanded
Approx. Nominal Thickness	1.2 mm (48 mils)
Approximate Roll Coverage	28 m² (300 ft²)
Side Lap	76 mm (3")
End Lap	152 mm (6")
Roll Length	33 m (108')
Roll Width	0.9 m (3')
Approximate Roll Weight	36.3 kg (80 lbs.)
Rolls per Pallet*	25
*Rolls stocked upright on pallet	

Product/ Properties per ASTM D 4601-04	Sopra-G
Net Dry Mass (lb. 100 ft²)	27.7
Moisture (% max @ time of mfg.)	<1
Mass of desaturated glass mat (lb. 100 ft²)	1.6
Asphalt (min. lb./100 ft²)	10
Parting agent & stabilizer (max. lb./100 ft²)	NA
Load strain properties @ 77° F (25° C) Breaking Strength	60 MD 44 XD
Pliability (½ in. radius failures)	No Cracking
Minimum values before and after Heat Conditioning. Test results for manufacturing plant in Wadsworth, OH7/24/03	

WARRANTY

Contact your local SOPREMA representative for project warranty offerings.

APPROVALS

See Underwriters Laboratories Inc. File #R11436, FM Approvals, ICC/ES, Miami-Dade County or Florida Building Code Product Approval Listings for current Approved Roof Assembly combinations. Soprema is ISO-9001:2000.

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PRODUCT DATA SHEET

PDS-270
Rev 05/11

ELASTOPHENE SANDED

ELASTOPHENE SANDED (25) Order No. 00206

DESCRIPTION & APPLICATION

Elastophene Sanded is composed of selected SBS modified bitumen applied onto a glass mat reinforcement with high brush sanded bottom and top surface. Elastophene Sanded field base membrane ply is adhered to a properly prepared, clean, dry and/or primed (where required) substrate by using hot asphalt or cold adhesive. Optional inner ply(s) or the field cap membrane ply is bonded to the properly prepared, clean, dry and/or primed (where required).

A self-adhesive cap sheet can also be installed when the Elastophene surface is properly prepared with the appropriate Soprema Primer and Soprema Sealant is applied to all side and end lap edges not having a bitumen bleed-out. See published Specifications and Approved Details.

ELASTOPHENE SANDED may be used as a seperator sheet in an approved Colphene H waterproofing assembly. Embed ELASTOPHENE SANDED membrane into COLPHENE H rubberized asphalt while still hot and broom in to ensure solid adhesion. The membrane is installed with minimum two (2") inch (51 mm) sidelaps and four (4") inch (102 mm) end laps, or in accordance with specific project requirements. For specific job conditions where vehicular traffic or extreme physical abuse is expected, additional protection may be required.

FEATURES & BENEFITS

- Superior tensile strength
- Provides UV resistance (not designed for permanent exposure)
- Fiberglass reinforcement provides dimensional stability
- Excellent bonding capacity with Colphene H hot rubbarized asphalt

COMPOSITION & PACKAGING

Product/ Property	**ELASTOPHENE SANDED**
Reinforcement	fiberglass reinforcement
Elastomeric Bitumen	selected blend of bitumen and SBS thermoplastic polymers
Topside	lightly sanded
Underside	lightly sanded
Approximate Nominal Thickness	90 mils (2.2 mm)
Approximate Roll Coverage	147 ft² (13.6 m²)
Side Lap	3" (76 mm)
End Lap	6" (152 mm)
Roll Length	49 ft (15 m)
Roll Width	39" (1 m)
Approximate Roll Weight	90 lbs (40.8 kg)
Rolls per Pallet*	30
* Rolls stocked upright on pallets	

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PHYSICAL PROPERTIES

Physical Property per ASTM D 6163, Type I, Grade S	MD	XD
Tensile - Max Load at 0 ± 3.6°F lbf/in	116	104
Elongation at 0 ± 3.6°F %	4.2	4.0
Tensile - Max Load at 73.4 ± 3.6°F lbf/in	57	57
Elongation at 73.4 ± 3.6°F %	4.0	4.0
Tear Strength at 73.4 ± 3.6°F lbf	82	73
Low Temperature Flex °F max	-15	-15
Dimensional Stability % max	<0.1	<0.1
Compound Stability Temp F	250	250
Granule Embedment g/max	NA	NA
Minimum values before and after Heat Conditioning Test results for manufacturing plant in Wadsworth, OH		

LIMITATIONS

Elastophene Sanded should not be stored exposed to the elements. Rolls should be stored upright on a pallet.

APPROVALS

See Underwriters Laboratories Inc. File #R11436, FM Approvals, ICC/ES, Miami-Dade County or Florida Building Code Product Approval Listings for current Approved Roof Assembly combinations. Soprema is ISO-9001:2000 Certified.

GENERAL

SOPREMA is a Certified ISO 9001:2000 worldwide producer of bituminous membranes with factories in Europe and North America. Waterproofing sheets have been produced by SOPREMA since 1908. Today, through a special mixture of components, SOPREMA membranes redefine the qualities indispensable to a high performance roof membrane: elasticity, flexibility, heat & fatigue resistance.

SOPREMA SBS modified bitumen membrane assemblies typically consist of base and top ply membranes that have specific type reinforcements in order to meet specific ASTM Standards. The two ply system provides a resistance to punctures and tears, as well as ensuring an effective distribution of stress points. The two ply system operates in a homogeneous fashion. The bitumen in each layer moves uniformly to offer continuous protection.

WARRANTY

Contact your local SOPREMA representative for project warranty offerings.

PRODUCT DATA SHEET

PDS-274
Rev 04/13

ELASTOPHENE FR GR

ELASTOPHENE FR GR (42) (FR High Slope) Order No. 01181*

***Cap sheet order numbers are for WHITE CAP SHEETS ONLY. Contact Customer Service or your Sales Representative for other available cap sheet colors and special order requirements.**

CRRC COOL ROOF RATING COUNCIL ® **MEMBER**

DESCRIPTION & APPLICATION

Elastophene FR GR is composed of selected SBS modified bitumen applied onto a glass mat reinforcement with high brush sanded bottom and granule top surface. Elastophene FR GR field cap membrane ply is adhered to a properly prepared, clean, dry and/or primed (where required) substrate by using hot asphalt or cold adhesive.

See published Specifications and Approved Details.

COMPOSITION & PACKAGING

Product/ Property	**ELASTOPHENE FR GR**
Reinforcement	fiberglass reinforcement
Elastomeric Bitumen	selected blend of bitumen and SBS thermoplastic polymers
Topside	granules
Underside	lightly sanded
Approximate Nominal Thickness	136 mils (3.4 mm)
Approximate Roll Coverage	97.5 ft² (9.1 m²)
Side Lap	3" (76 mm)
End Lap	6" (152 mm)
Roll Length	33 ft (10 m)
Roll Width	39" (1 m)
Approximate Roll Weight	94 lbs (42.6 kg)
Rolls per Pallet*	30
* Rolls stocked upright on pallets	

APPROVALS

See Underwriters Laboratories Inc. File #R11436, FM Approvals, ICC/ES, Miami-Dade County or Florida Building Code Product Approval Listings for current Approved Roof Assembly combinations. Soprema is ISO-9001:2008 Certified.

WARRANTY

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PHYSICAL PROPERTIES

Physical Property per ASTM D 6163, Type I, Grade G	MD	XD
Peak Load at 0 ± 3.6°F kn/m (lbf/in)	20 (116)	18 (104)
Elongation at 0 ± 3.6°F %	5.0	6.2
Peak Load at 73.4 ± 3.6°F lbf/in	10 (57)	10 (57)
Elongation at 73.4 ± 3.6°F %	4.0	4.0
Tear Strength at 73.4 ± 3.6°F lbf	82	78
Low Temperature Flex °F	-15	-15
Dimensional Stability %	<0.1	<0.1
Compound Stability Temp °C (°F)	121 (250)	121 (250)
Granule Embedment g/max	0.8	0.8
Ultimate Elongation %	60	51.4
* Minimum values before and after Heat Conditioning * Test results for manufacturing plant in Wadsworth, OH		

GENERAL

SOPREMA is a Certified ISO 9001:2008 worldwide producer of bituminous membranes with factories in Europe and North America. Waterproofing sheets have been produced by SOPREMA since 1908. Today, through a special mixture of components, SOPREMA membranes redefine the qualities indispensable to a high performance roof membrane: elasticity, flexibility, heat & fatigue resistance.

SOPREMA SBS modified bitumen membrane assemblies typically consist of base and top ply membranes that have specific type reinforcements in order to meet specific ASTM Standards. The two ply system provides a resistance to punctures and tears, as well as ensuring an effective distribution of stress points. The two ply system operates in a homogeneous fashion. The bitumen in each layer moves uniformly to offer continuous protection.

CRRC COOL ROOF RATING COUNCIL ®

	Initial	Weathered
Solar Reflectance	0.27	0.25
Thermal Emittance	0.88	0.90

Rated Product ID Number	0772-0020
Licensed Seller ID Number	0772
Classification	Production Line

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicabl Cool Roof Rating Council procedures.

CA Title 24 Compliant Initial/ Weathered - CRRC Rated	Reflectivity 0.27 / 0.25	Emmissivity 0.88 / 0.90
LEED	Recycled Content 0%	
	Production Location: Wadsworth, OH, Gulfport, MS & Chilliwack, BC	

Solar Reflective Index(SRI)	
Initial	Weathered
27	25.3

PRODUCT DATA SHEET

PDS-400
Rev 06/12

SOPRALENE FLAM STICK

SOPRALENE FLAM STICK (33) Order No. 06010

DESCRIPTION & APPLICATION

Sopralene Flam Stick base ply is composed of selected SBS modified bitumen applied onto a non-woven polyester reinforcement with self-adhesive bitumen on the underside and a film topside surface.

The Sopralene Flam Stick field and flashing base membrane ply is adhered to a properly prepared, clean, dry and/or primed (where required) substrate by the self-adhered application method. Optional inner ply(s) or the field cap membrane ply is bonded to the properly prepared, clean, dry Sopralene Flam Stick top surface with the heat welding application method.

See published Specifications and Approved Details.

COMPOSITION & PACKAGING

Product/ Property	**SOPRALENE FLAM STICK**
Reinforcement	polyester
Elastomeric Bitumen	selected blend of bitumen and SBS thermoplastic polymers
Topside	film
Underside	self-adhesive with release film
Approximate Nominal Thickness	96 mils (2.4 mm)
Approximate Roll Coverage	147 ft² (13.6 m²)
Side Lap	3" (76 mm)
End Lap	6" (152 mm)
Roll Length	49 ft (15 m)
Roll Width	39" (1 m)
Approximate Roll Weight	87 lbs (39.5 kg)
Rolls per Pallet*	25
* Rolls stocked upright on pallets	

WARRANTY

Contact your local SOPREMA representative for project warranty offerings.

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PHYSICAL PROPERTIES

Physical Property per ASTM D 6164, Type I, Grade S	MD	XD
Tensile - Max Load at 0 ± 3.6°F lbf/in	117	83
Elongation at 0 ± 3.6°F %	29	22
Tensile - Max Load at 73.4 ± 3.6°F lbf/in	70	70
Elongation at 73.4 ± 3.6°F %	56	61
Tear Strength at 73.4 ± 3.6°F lbf	120	87
Low Temperature Flex °F max	-15	-15
Dimensional Stability % max	<0.5	<0.5
Compound Stability Temp F	250	250
Granule Embedment g/max	NA	NA
Minimum values before and after Heat Conditioning Test results for manufacturing plant in Wadsworth, OH		

APPROVALS

See Underwriters Laboratories Inc. File #R11436, FM Approvals, ICC/ES, Miami-Dade County or Florida Building Code Product Approval Listings for current Approved Roof Assembly combinations. Soprema is ISO-9001:2000 Certified.

GENERAL

SOPREMA is a Certified ISO 9001:2000 worldwide producer of bituminous membranes with factories in Europe and North America. Waterproofing sheets have been produced by SOPREMA since 1908. Today, through a special mixture of components, SOPREMA membranes redefine the qualities indispensable to a high performance roof membrane: elasticity, flexibility, heat & fatigue resistance.

SOPREMA SBS modified bitumen membrane assemblies typically consist of base and top ply membranes that have specific type reinforcements in order to meet specific ASTM Standards. The two ply system provides a resistance to punctures and tears, as well as ensuring an effective distribution of stress points. The two ply system operates in a homogeneous fashion. The bitumen in each layer moves uniformly to offer continuous protection.

PRODUCT DATA SHEET

PDS-260
Rev 09/11

SOPRALAST 50 TV ALU

SOPRALAST 50 TV ALU (57) Order No. 05181

COOL ROOF RATING COUNCIL ® MEMBER

DESCRIPTION

SOPRALAST 50 TV ALU is fiberglass scrim reinforced roofing membranes combined with selected SBS modified bitumen, with an underside plastic burn-off film and a topside metal facing to form heat-welded, metal-clad membranes. When heat-welding, use a damp sponge or mop to cool the metal film immediately after application. See published Specifications and Approved Details.

COMPOSITION & PACKAGING

Product/ Property	**SOPRALAST 50 TV ALU**
Reinforcement	Grid glass mat
Elastomeric Bitumen	selected blend of bitumen & SBS thermoplastic polymers
Top Surface	Aluminum
Bottom Surface	Plastic film
Approximate Nominal Thickness	160 mils (4 mm)
Approximate Roll Coverage	97.5 ft² (9.1 m²)
Side Lap	3.5" (90 mm)
End Lap	6" (152 mm)
Roll Length	33' (10 m)
Roll Width	39" (1 m)
Approximate Roll Weight	95 lbs (43 kg)
Rolls per Pallet*	25
*Rolls stocked upright on pallet	

APPROVALS

See Underwriters Laboratories Inc. File #R11436, FM Approvals, ICC/ES, Miami-Dade County or Florida Building Code Product Approval Listings for current Approved Roof Assembly combinations. Soprema is ISO-9001:2008 Certified.

WARRANTY

Contact your local SOPREMA representative for project warranty offerings.

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SOPRALAST 50 TV ALU
PAGE 2

PDS-280
Rev 0911

PHYSICAL PROPERTIES

Physical Property per ASTM D 6298	MD	XD
Tensile - Max Load at 0 ± 3.6°F lbf/in	200	175
Elongation at 0 ± 3.6°F %	12	10
Tensile - Max Load at 73.4 ± 3.6°F lbf/in	136	134
Elongation at 73.4 ± 3.6°F %	8	8
Tear Strength at 73.4 ± 3.6°F lbf	130	130
Low Temperature Flex °F max	-15	-15
Dimensional Stability % max	<0.2	<0.2
Compound Stability Temp F	250	250
Minimum values before and after Heat Conditioning Test results for manufacturing plant in Wadsworth, OH		

GENERAL

SOPREMA is a Certified ISO 9001:2008 worldwide producer of bituminous membranes with factories in Europe and North America. Waterproofing sheets have been produced by SOPREMA since 1908. Today, through a special mixture of components, SOPREMA membranes redefine the qualities indispensable to a high performance roof membrane: elasticity, flexibility, heat & fatigue resistance.

SOPREMA SBS modified bitumen membrane assemblies typically consist of base and top ply membranes that have specific type reinforcements in order to meet specific ASTM Standards. The two ply system provides a resistance to punctures and tears, as well as ensuring an effective distribution of stress points. The two ply system operates in a homogeneous fashion. The bitumen in each layer moves uniformly to offer continuous protection.

CRRC COOL ROOF RATING COUNCIL

	Initial	Weathered
Solar Reflectance	0.87	0.72
Thermal Emittance	0.05	0.10
Rated Product ID Number	0772-0028	
Licensed Seller ID Number	0772	
Classification	Production Line	

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicab Cool Roof Rating Council procedures.

CA Title 24 Compliant Initial/ Weathered - CRRC Rated	Reflectivity 0.87 / 0.72	Emmissivity 0.05 / 0.10
LEED	Recycled Content 0%	
	Production Location: Wadsworth, OH, Gulfport, MS & Chilliwack, BC	

Solar Reflective Index(SRI)	
Initial	Weathered
93.4	63.8