

## PRODUCT DATA SHEET

### DESCRIPTION & FEATURES

SOPRASMART XP ISO 180 is a high performance panel of an SBS-modified bitumen base membrane, SOPRAROCK mineral wool board, and polyisocyanurate insulation board for use in approved multi-ply membrane assemblies. To create SOPRASMART XP ISO 180 high density mineral fiber board is combined with polyisocyanurate insulation board and is factory laminated to an SBS modified bitumen base ply reinforced with a tough, dimensionally stable non-woven polyester mat creating a time and labor-saving solution. The topside is surfaced with polyolefin burn-off film to optimize head welding application.

### STORAGE

Store board flat and maintain in a horizontal position to prevent damage. Store board in a clean dry location and cover as necessary to protect boards from environmental damage such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of SOPRASMART XP ISO 180.

### APPLICATION

Prior to installation, unfold SOPRASMART XP ISO 180 onto the roof surface and allow to relax. SOPRASMART XP ISO 180 is installed via mechanical fastening, approved adhesive or hot asphalt following manufacturer specifications. When installing via mechanical fastening, SOPRASMART XP ISO 180 is fastened through the patented DUO SELVEDGE lap following the details for the uplift pressure required. Subsequent approved inter-ply or cap ply membranes are applied to SOPRASMART XP ISO 180 via heat welding. Refer to the SOPREMA SBS Roofing Manual for additional application guidelines.



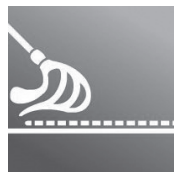
APPLICATION



MECHANICALLY FASTENED



DUOTACK®



HOT ASPHALT

QUICK FACTS

LENGTH (ft)	WIDTH (in)	MEMBRANE THICKNESS (mils)
8 or 16 (2.44 m or 4.88 m)	39 (99 cm)	87.0 (2.2 mm)

ISO THICKNESS (in)	Mineral Wool Thickness (in)	Quantity/Pallet	Board Size (ft)	Pallet Weight (lbs)
1 (2.5 cm)	0.5 (1.3 cm)	12	3x16 (0.9x4.9 m)	741 (336 kg)
1.5 (3.8 cm)	0.5 (1.3 cm)	9	3x16 (0.9x4.9 m)	592 (269 kg)
2 (5.1 cm)	0.5 (1.3 cm)	8	3x16 (0.9x4.9 m)	558 (253 kg)
2.5 (6.4 cm)	0.5 (1.3 cm)	6	3x16 (0.9x4.9 m)	443 (201 kg)
3 (7.6 cm)	0.5 (1.3 cm)	6	3x16 (0.9x4.9 m)	466 (211 kg)
3.5 (8.9 cm)	0.5 (1.3 cm)	10	3x8 (0.9x2.4 m)	410 (186 kg)
4 (10.2 cm)	0.5 (1.3 cm)	10	3x8 (0.9x2.4 m)	429 (195 kg)

\* Coverage rate as reported assumes installation using side and end lap recommendations.

TECHNICAL INFORMATION & TESTING

**BOARD PROPERTIES**

Reinforcement	Non-woven polyester
Top surfacing	Polyolefin film
Back surfacing	Polyisocyanurate
Selvage width, in (mm)	3 (75)
Total thickness, min (mm)	1-4.5 (38-114)

**MEMBRANE PROPERTIES**

PROPERTY	MD	XMD	TEST METHOD
Peak @ 0°F (-18°C), lbf/in (kN/m)	110 (19.3)	85 (14.9)	ASTM D5147
Elongation at peak load @ 0°F (-18°C), %	35	40	ASTM D5147
Peak load @ 73.4°F (23°C), lbf/in (kN/m)	85 (14.9)	65 (11.4)	ASTM D5147
Elongation at peak load @ 73.4°F (23°C), %	55	60	ASTM D5147
Ultimate elongation @ 73.4°F (23°C), %	60	65	ASTM D5147
Tear strength @ 73.4°F (23°C), lbf (N)	125 (556)	85 (378)	ASTM D5147
Low temperature flexibility, °F (°C)	-15 (-26)	-15 (-26)	ASTM D5147
Dimensional stability, %	<0.5	<0.5	ASTM D5147
Compound stability, °F (°C)	240 (116)	240 (116)	ASTM D5147

**MINERAL WOOL PROPERTIES**

PROPERTY		TEST METHOD
R-value/inch @ 75°F, hr-ft²-F/Btu (RSI value/inch @ 24°C, m² K/w)	4.0 (0.7)	ASTM C518
Compressive strength [1" thickness @ 10% & 25%, psi (kPa)]	12 (85) 28 (190)	ASTM D165
Density, lb/ft³ (kg/m³)	12.5 (200)	ASTM C612
Dimensional stability linear shrinkage 24 hrs @ 1200°F (650°C), %	1.1	ASTM C356
Water absorption, %	<1.0	ASTM C209
Water vapor sorption, %	0.29	ASTM C1104

**POLYISO PROPERTIES**

PROPERTY		TEST METHOD
R-value/inch @ 75°F, hr-ft²-F/Btu (RSI value/inch @ 24°C, m² K/w) @ 1" (25.4 mm), 1.5" (38.1 mm) & 2" (50.8 mm) thickness	5.7, 8.6, 11.4 (1.0, 1.5, 2.0)	ASTM C518
Compressive strength, PSI (kPa)	> 20 (138)	ASTM D1621
Dimensional stability, %	< 2	ASTM D2126
Water absorption, %	< 1.5	ASTM C209
Resistance to mold	Pass	ASTM D3273

TESTING & APPROVALS

