

SOPRASMART®

XP HD 180

SOPRASMART®
XP HD 180
PRODUCT #
Ask customer service

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

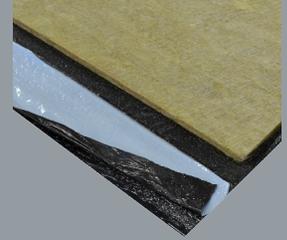
SOPRASMART XP HD 180 is a high performance panel composed of an SBS-modified bitumen base membrane and HD SOPRAROCK high density mineral wool board for use in approved multi-ply membrane assemblies. To create SOPRASMART XP HD 180, high density mineral fiber board is factory laminated to an SBS modified 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 heat welding applications.

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 HD 180.

APPLICATION

Prior to installation, unfold SOPRASMART XP HD 180 onto the roof surface and allow to relax. SOPRASMART XP HD 180 is installed via mechanical fastening, approved adhesive or hot asphalt following manufacturer specifications. When installing via mechanical fastening, SOPRASMART XP HD 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 HD 180 via heat welding. Refer to SOPREMA SBS Roofing Manual for additional application guidelines.



APPLICATION



MECHANICALLY
FASTENED



DUOTACK®



HOT ASPHALT

QUICK FACTS

LENGTH (ft)	WIDTH (in)	MEMBRANE THICKNESS (mils)	MINERAL WOOL THICKNESS (in)	0.5", 1.0", 1.5" BOARD WEIGHT (lb)			0.5", 1.0", 1.5" BOARDS/ PALLET (pallet weight)		
				52 (23.5 kg)	77 (34.9 kg)	97 (43.9 kg)	36 (1620 lb/ 734 kg)	21 (1617 lb/ 733.4 kg)	14 (1358 lb/ 615.9 kg)
16 (4.88 m)	39 (0.99 m)	87.0 (2.2 mm)	0.5-1.5 (12.7-38.1 mm)						

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



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TECHNICAL INFORMATION & TESTING

BOARD PROPERTIES

Reinforcement	Non-woven polyester
Top surfacing	Polyolefin film
Back surfacing	Mineral fiber (rock wool)
Selvage width, in (mm)	3 (75)
Total thickness, in (mm)	0.6-1.6 (15.2-40.6)

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-ft ² -F/Btu (RSI value/inch @ 24°C, m ² K/w)	4.0 (0.7)	ASTM C518
Compressive strength [1" thickness @ 10% & 25%, psi (kPa)]	12 (23) 28 (193)	ASTM C165
Density, lb/ft ³ (kg/m ³)	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

* Data is represented by average values, unless noted otherwise.

TESTING & APPROVALS

