

2-1 SOPRASMART®

ISO HD

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ISO HD
PRODUCT #
09981 (FLAM) 3'x8'
09978 (Sanded) 3'x8'
3'x16' Contact SOPREMA®

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

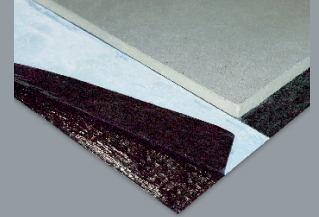
2-1 SOPRASMART ISO HD is a high performance panel of an SBS-modified bitumen base membrane and high density polyisocyanurate insulation board for use in approved multi-ply membrane assemblies. To create 2-1 SOPRASMART ISO HD, high density polyisocyanurate board is factory laminated to an SBS modified 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 or a fine mineral aggregate to optimize cold adhesive and hot asphalt 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 2-1 SOPRASMART ISO HD.

APPLICATION

Prior to installation, unfold 2-1 SOPRASMART ISO HD onto the roof surface and allow to relax. 2-1 SOPRASMART ISO HD is installed via mechanical fastening, approved adhesive or hot asphalt following manufacturer specifications. When installing via mechanical fastening, 2-1 SOPRASMART ISO HD 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 2-1 SOPRASMART ISO HD via heat welding. Refer to SOPREMA SBS Roofing Guide for additional application guidelines.



APPLICATION



MECHANICALLY FASTENED



DUOTACK® 365



HOT ASPHALT

QUICK FACTS

LENGTH (ft)	WIDTH (in)	MEMBRANE THICKNESS (mils)	POLYISO THICKNESS (in)	BOARD WEIGHT (lb)	BOARDS/PALLET (pallet weight)
8 (2.4 m)	39 (1.0 m)	87 (2.2 mm)	0.5 (12.7 mm)	20.3 (9.2 kg)	70 (1,471 lb/ 667 kg)
16 (4.9 m)	39 (1.0 m)	87 (2.2 mm)	0.5 (12.7 mm)	40.8 (18.5 kg)	36 (1,519 lb/ 689 kg)

* 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 or Silica Sand
Back surfacing	Polyisocyanurate HD
Selvage width, in (mm)	3 (76.2)
Total thickness, in (mm)	0.6 (14.9)

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

POLYISO PROPERTIES

PROPERTY		TEST METHOD
R-value/inch @ 75°F, hr-ft ² -F/Btu (RSI value/inch @ 24°C, m ² K/w)	2.5 (0.4)	ASTM C518
Compressive strength, psi (kPa)	100 (689)	ASTM D1621
Dimensional stability, %	< 0.5	ASTM D2126
Water absorption, %	< 3.0	ASTM C209
Resistance to mold	Pass	ASTM D3273

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

TESTING & APPROVALS

