

3-1 SOPRASMART® BOARD

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BOARD

PRODUCT #
Contact Customer Service

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

3-1 SOPRASMART BOARD is a high performance panel of an SBS-modified bitumen base membrane, SOPRABOARD asphaltic coverboard and two inches of SOPRA-ISO polyisocyanurate insulation for use in approved multi-ply membrane assemblies. To create 3-1 SOPRASMART BOARD, a semi-rigid, asphaltic roofing substrate board is factory laminated to SOPRA-ISO and then 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 surface with polyolefin burnoff 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 3-1 SOPRASMART BOARD.

APPLICATION

Prior to installation, unfold 3-1 SOPRASMART BOARD onto the roof surface and allow to relax. 3-1 SOPRASMART BOARD is installed via mechanical fastening, approved adhesive or hot asphalt following manufacturer specifications. When installing via mechanical fastening, 3-1 SOPRASMART BOARD 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 3-1 SOPRASMART BOARD via heat welding. Refer to SOPREMA SBS Roofing Guide for additional application guidelines.



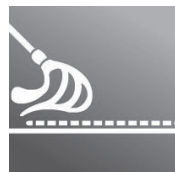
APPLICATION



MECHANICALLY
FASTENED



DUOTACK®



HOT ASPHALT

QUICK FACTS

LENGTH (ft)	WIDTH (in)	MEMBRANE THICKNESS (mils)	ISO THICKNESS (in)
8 (2.4 m)	39 (1.0 m)	87.0 (2.2 mm)	1 - 4 (25 -102 mm)



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TECHNICAL INFORMATION & TESTING

BOARD PROPERTIES	
Reinforcement	Non-woven polyester
Top surfacing	Polyolefin film or Silica Sand
Back surfacing	Polyiso facer
Selvage width, in (mm)	3 (75)
Total thickness, in (mm)	1.2 - 4.3 (30-110)

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

ASPHALTIC BOARD PROPERTIES		
PROPERTY		TEST METHOD
Board thickness, in (mm)	1/8 (3.2) or 3/16 (4.8)	ASTM D5147
Puncture resistance, lbf (N)	90 (400) or 95 (423)	ASTM E154
Water absorption, %	<1.0	ASTM D994

POLY ISO PROPERTIES		
PROPERTY		TEST METHOD
Compressive strength, psi (kPA)	20 (138) grade 2	ASTM D1621
Dimensional stability, %	< 2	ASTM D2126
Vapor transmission, perm	< 1.5	ASTM E96
Water absorption, %	< 1.5	ASTM C209
Flame spread	< 75	ASTM E84
Smoke developed	< 450	ASTM E84
Service temperature, °F (°C)	-40 (4) to 250 (121)	-

* ASTM C1289 Type II, Class 1 Grade 2 (20 psi) LTTR (R-Value): 2 in = 11.4