

# SOPRASMART®

## BOARD 180 ISO

SOPRASMART®  
BOARD 180 ISO  
PRODUCT # D28210

## PRODUCT DATA SHEET

### DESCRIPTION & FEATURES

SOPRASMART Board 180 ISO 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 SOPRASMART Board 180 ISO, a semi rigid, asphaltic roofing substrate board is factory laminated to two inches of 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.



### 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 Board 180 ISO.

### APPLICATION

Prior to installation, unfold SOPRASMART Board 180 ISO onto the roof surface and allow to relax. SOPRASMART Board 180 ISO is installed via mechanical fastening, approved adhesive or hot asphalt following manufacturer specifications. When installing via mechanical fastening, SOPRASMART Board 180 ISO 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 Board 180 ISO 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)	POLY ISO THICKNESS (in)	ASPHALTIC BOARD THICKNESS (in)	BOARD WEIGHT (lb)	BOARDS/PALLET (pallet weight)
16 (4.88 m)	39 (0.99 m)	87.0 (2.2 mm)	2 (51 mm)	1/8 (3.2 mm)	89 (40.4 kg)	10 (890 lb/404 kg)

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



**SOPREMA®**

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TECHNICAL INFORMATION & TESTING

BOARD PROPERTIES	
Reinforcement	Non-woven polyester
Top surfacing	Polyolefin film
Back surfacing	Polyiso facer
Selvage width, in (mm)	3 (75)
Total thickness, in (mm)	2.22 (57 mm)

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 temp, °F (°C)	-40 (4) to 250 (121)	-

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