

## PRODUCT DATA SHEET

### DESCRIPTION & FEATURES

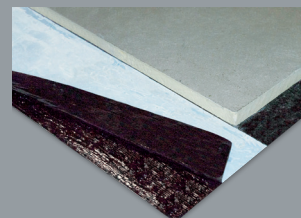
SOPRASMART ISO HD 180 is a high performance panel of an SBS-modified bitumen base membrane and high density polyisocyanurate insulation board for use in approved multi-ply membrane assemblies. To create SOPRASMART ISO HD 180, high density polyisocyanurate board is factory laminated to an SBS modified 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.

### 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 ISO HD 180.

### APPLICATION

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



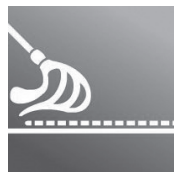
APPLICATION



MECHANICALLY FASTENED



DUOTACK®



HOT ASPHALT

QUICK FACTS

LENGTH (ft)	WIDTH (in)	MEMBRANE THICKNESS (mils)	POLYISO THICKNESS (in)	BOARD WEIGHT (lb)	BOARDS/PALLET (pallet weight)
8 (2.44 m)	39 (0.99 m)	87.0 (2.2 mm)	0.5 (12.7 mm)	23.2 (10.5 kg)	70 (1,624 lb/ 736 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 HD
Selvage width, in (mm)	3 (75)
Total thickness, min (mm)	0.6 (15.2)

### 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 <sup>2</sup> -F/Btu (RSI value/inch @ 24°C, m <sup>2</sup> K/w)	2.5 (0.44)	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

