

3-1 SOPRASMART® ROCK

3-1 SOPRASMART
ROCK
PRODUCT #
CONTANCT
CUSTOMER SERVICE

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

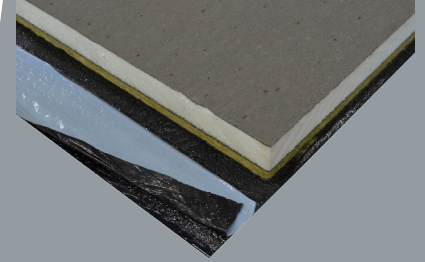
3-1 SOPRASMART ROCK is a high performance panel of an SBS-modified bitumen base membrane, SOPRAROCK mineral wool board, and polyisocyanurate insulation board for use in approved multi-ply membrane assemblies. To create 3-1 SOPRASMART ROCK high density mineral fiber board is combined with polyisocyanurate insulation board and 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 head welding application or silica sand to aid with cold adhesive application.

STORAGE

Store board flat and maintain in a horizontal position to prevent damage. Store board in a clea, 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 ROCK.

APPLICATION

3-1 SOPRASMART ROCK is installed via mechanical fastening, approved adhesive or hot asphalt following manufacturer specifications. When installing via mechanical fastening, 3-1 SOPRASMART ROCK 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 ROCK via heat welding. Refer to the SOPREMA SBS Roofing Guide for additional application guidelines.



APPLICATION



MECHANICALLY
FASTENED



DUOTACK®



HOT ASPHALT

QUICK FACTS

LENGTH (ft)	WIDTH (in)	MEMBRANE THICKNESS (mils)
8 (2.4 m)	39 (1.0 m)	87.0 (2.2 mm)

ISO THICKNESS (in)	Mineral Wool Thickness (in)	Board Size (ft)
1 (25 mm)	1.0 (25 mm)	3x8 (1.0x2.4 m)
1.5 (38 mm)	1.0 (25 mm)	3x8 (1.0x2.4 m)
2 (51 mm)	1.0 (25 mm)	3x8 (1.0x2.4 m)
2.5 (64 mm)	1.0 (25 mm)	3x8 (1.0x2.4 m)
3 (76 mm)	1.0 (25 mm)	3x8 (1.0x2.4 m)

*Maximum board thickness may not exceed 4.5" (114 mm)



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TECHNICAL INFORMATION & TESTING

BOARD PROPERTIES

Reinforcement	Non-woven polyester
Top surfacing	Polyolefin film or Silica Sand
Back surfacing	Polyisocyanurate
Selvage width, in (mm)	3 (75)
Total thickness, min (mm)	1.6-4.1 (41-104)

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-ft²-F/Btu (RSI value/inch @ 24°C, m² K/w)	4.0 (0.7)	ASTM C518
Compressive strength [1" thickness @ 10% & 25%, psi (kPa)]	12 (85) 28 (190)	ASTM D165
Density, lb/ft³ (kg/m³)	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

POLYISO PROPERTIES

PROPERTY		TEST METHOD
R-value/inch @ 75°F, hr-ft²-F/Btu (RSI value/inch @ 24°C, m² K/w) @ 1" (25.4 mm), 1.5" (38.1 mm) & 2" (50.8 mm) thickness	5.7, 8.6, 11.4 (1.0, 1.5, 2.0)	ASTM C518
Compressive strength, PSI (kPa)	> 20 (138)	ASTM D1621
Dimensional stability, %	< 2	ASTM D2126
Water absorption, %	< 1.5	ASTM C209
Resistance to mold	Pass	ASTM D3273

TESTING & APPROVALS

