2-1 SOPRASMART® ROCK

Mineral Wool panel with SBS-Modified Bitumen Base Membrane

PRODUCT NUMBERS:

For ordering information contact customer service.

DESCRIPTION & FEATURES:

2-1 SOPRASMART ROCK is a high performance panel composed of an SBS-modified bitumen base membrane and SOPRAROCK high density mineral wool board. The **2-1 SOPRASMART ROCK** is designed for use in approved multi-ply roof membrane assemblies.

- Available in 1 and 1.5 thicknesses, surfaced with a flam or sanded base sheet to accommodate cap sheet application
- Utilizes a factory-laminated technology to combine SBS base ply with a mineral fiber board
- With the ability to install a cover board and base ply in one step contractors can realize time and labor savings
- Superior waterproofing thanks to DUO SELVEDGE, that features a partially self-adhered lap (60% of the side lap) leaving only 40% to be heat welded

APPLICATION:

MECHANICALLY FASTENED   HOT ASPHALT

Prior to installation, unfold **2-1 SOPRASMART ROCK** onto the roof surface and allow to relax. **2-1 SOPRASMART ROCK** is installed via mechanical fastening or hot asphalt following manufacturer specifications. When installing via mechanical fastening, **2-1 SOPRASMART ROCK** is fastened through the patented DUO SELVEDGE lap following the details for the uplift pressure required.

> Refer to the SOPREMA Low-Slope Roofing Insulation Technical Manual for complete application guidelines.

STORAGE:

Store boards flat on a pallet to prevent damage. Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture. Extra caution should be taken to ensure the DUO SELVEDGE side laps are not damaged during transportation and application.
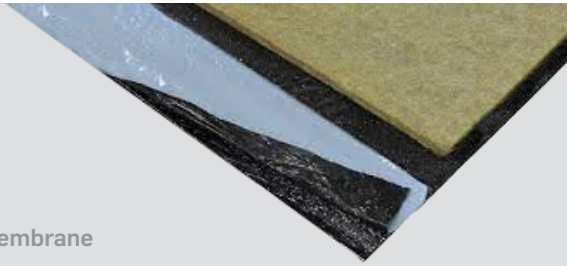
TESTING & APPROVALS:

FM APPROVED   CLASSIFIED UL

WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.

TECHNICAL INFORMATION & TESTING:

TYPICAL PROPERTIES	
PROPERTY	**VALUE**
Elastomeric bitumen	Proprietary blend of bitumen and SBS polymers
Membrane reinforcement	Non-woven polyester
Top surfacing	Polyolefin film or silica sand
Bottom surfacing	Mineral fiber (rock wool)
Selvage width, in (mm)	3 (75)
Selvage thickness, mil (mm)	87 (2.2)

DIMENSIONS & MASS				
PROPERTY	**SANDED**		**FLAM**	
	1.0 inch	1.5 inch	1.0 inch	1.5 inch
Support panel dimensions, ft (m)	3 x 16 (0.914 x 4.88)			
Boards per pallet	21	14	21	14
Membrane thickness, mil (mm)	87 (2.2)			
Mineral fiber board thickness,* in (mm)	1 (25.4)	1.5 (38.1)	1 (25.4)	1.5 (38.1)
Total thickness, in (mm)	1.1 (27.6)	1.6 (40.3)	1.1 (27.6)	1.6 (40.3)

* Other thicknesses are available by request

MEMBRANE PROPERTIES*			
PROPERTY	**MD**	**XMD**	**ASTM TEST METHOD**
Peak load @ 0˚F (-18˚C), lbf/in (kN/m)	110 (19.3)	85 (14.9)	D5147
Elongation at peak load @ 0˚F (-18˚C), %	35	40	D5147
Peak load @ 73.4˚F (23˚C), lbf/in (kN/m)	85 (14.9)	65 (11.4)	D5147
Elongation at peak load @ 73.4˚F (23˚C), %	55	60	D5147
Ultimate elongation @ 73.4˚F (23˚C), %	60	65	D5147
Tear strength @ 73.4˚F (23˚C), lbf (N)	125 (556)	85 (378)	D5147
Low temperature flexibility, ˚F (˚C)	-15 (-26)	-15 (-26)	D5147
Dimensional stability, %	< 0.5	< 0.5	D5147
Compound stability, ˚F (˚C)	240 (116)	240 (116)	D5147

* Data is represented by average values, unless noted otherwise

MINERAL WOOL PROPERTIES*		
PROPERTY	**VALUE**	**ASTM TEST METHOD**
R-value/inch @ 75˚F, hr·ft²·F/Btu (RSI value/inch @ 24˚C, m² K/w)	4.0 (0.7)	C518
Compressive strength 1 in thickness, psi (kPa)	**10%:** 12 (85) **25%:** 28 (190)	C165
Density, lb/ft³ (kg/m³)	12.5 (200)	C612
Dimensional stability linear shrinkage 24 hrs @ 1200˚F (650˚C), %	1.1	C356
Water absorption, %	<1.2	C209
Water vapor absorption, %	0.29	C1104

* Data is represented by average values, unless noted otherwise

SOPREMA®