



WATERPROOFING

APPLICATIONS

ROOFS

2-1 SOPRASMART BOARD

BRANZ Appraised
Appraisal No.1145 [2021]

TECHNICAL DATA SHEET

ANZ-TDS-44-SOPRASMART BOARD

DESCRIPTION

2-1 SOPRASMART BOARD is a high performance base sheet panel composed of SBS modified bitumen membrane with a non-woven polyester reinforcement and a surface covered with a thermofusible plastic film. This membrane is factory-laminated on asphaltic board (SOPRABOARD).

2-1 SOPRASMART BOARD SANDED is a high performance base sheet panel composed of SBS modified bitumen membrane with a nonwoven polyester reinforcement and a sanded surface. This membrane is factory-laminated on asphaltic board (SOPRABOARD).

DUO SELVEDGE technology

Perfectly fits the shape of wooden decks

Ideal for recovery roofing

Easy and quick to install

Flameless solution

FIELD OF APPLICATION

Suitable as under layer in multi-layer waterproofing assemblies, 2-1 SOPRASMART BOARDS is used in horizontally waterproofing for general roofing.

INSTALLATION PROCEDURE

ADHESIVE

- 2-1 SOPRASMART BOARDS can be mechanically fixed or adhered with DUOTACK adhesives

MECHANICALLY FASTENED

- 2-1 SOPRASMART BOARDS panel is mechanically fastened to steel deck with screws and plates
- On a steel deck, fasteners must be installed on the steel deck top flanges. Install membranes perpendicular to the steel deck ribs
- The side lap joints have a DUO SELVEDGE. The first part is self-adhered and the last part of the joint is sealed with a hot-air welder. The use of SOPRAMATIC automatic hot-air welder will increase the speed and quality of the sealing.
- Align all end laps without offsetting them and cover them with a SOPRALAP STICK membrane centred on the joint. Pre-coat the surface to be covered with ELASTOCOL STICK primer. Or use a 300 mm strip fully torched of SOPRALENE FLAM 180 centred on the joint Or 300 mm SOPRAPLY STICK DUO centred on the joint, pre-coated with ELASTOCOL STICK primer.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

PACKAGING

SPECIFICATIONS	2-1 SOPRASMART BOARD PLAIN		2-1 SOPRASMART BOARD SANDED	
Thickness of the membrane	2.2 mm			
Thicknesses of the asphaltic support panel	3.2 mm	4.8 mm	3.2 mm	4.8 mm
Total thicknesses	5.4 mm	7 mm	5.4 mm	7 mm
Membrane reinforcement	Non-woven polyester			
Support panel dimensions (Asphaltic board)	0.914 x 2.44 m			
Total weight	16.2kg	21.5kg	16.2kg	21.5kg
Selvedge width	90 mm			
Surface	Thermofusible film		Sanded	
Underface	Semi-rigid asphaltic board			
Boards per pallet	65	45	65	45



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TDS_SOPRASMART_BOARD_AND_SANDED

1/2

2-1 SOPRASMART BOARD



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PROPERTIES (MEMBRANE)

PROPERTIES	STANDARD	2-1 SOPRASMART BOARD MEMBRANE		2-1 SOPRASMART BOARD S MEMBRANE	
		Heat Conditioning		Heat Conditioning	
		BEFORE	AFTER	BEFORE	AFTER
Strain energy, min MD/XD At 23 °C ± 2 °C At -18 °C ± 2 °C	As per CSA A123.23-15, Type B, Grade 3.	6.5/6.5 kN/m 8.0/4.0 kN/m	5.5/5.5 kN/m 3.1/3.1 kN/m	6.5/6.5 kN/m 8.0/4.0 kN/m	5.5/5.5 kN/m 3.1/3.1 kN/m
Peak load, min MD/XD At 23 °C ± 2 °C At -18 °C ± 2 °C		15/11 kN/m 22/17 kN/m	14/10 kN/m 19/11 kN/m	15/11 kN/m 22/17 kN/m	14/10 kN/m 19/11 kN/m
Elongation at peak load, min MD/XD At 23 °C ± 2 °C At -18 °C ± 2 °C		50/60 % 30/30 %	15/50 % 7/21 %	50/60 % 30/30 %	15/50 % 7/21 %
Ultimate elongation, MD/XD At 23 °C ± 2 °C		55/70 %	45/45 %	55/70 %	45/45 %
Dimensional stability, max MD/XD		±0.5/±0.1 %			
Low temperature flexibility, max MD/XD		-18/-18 °C	-18/-18 °C	-18/-18 °C	-18/-18 °C
Compound stability at 102 °C		121/121 °C			
Puncture Resistance		Pass			

PROPERTIES (BOARD)

PROPERTIES	STANDARD	2-1 SOPRASMART BOARD PLAIN BOARD	2-1 SOPRASMART BOARD SANDED BOARD
Puncture Resistance	ASTM E154	500 N	
Water Absorption	ASTM D994	2.5 %	

STORAGE AND HANDLING

2-1 SOPRASMART BOARDS base sheet panels must be stored on a flat substrate and sheltered from inclement weather. If the products are stored outdoors, cover them with an opaque protection cover.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative and/or the contractor are responsible for checking the suitability of products for their intended use.



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