

SOPRALENE FLAM 180 ALU



WATERPROOFING

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET

ANZ-TDS-106-SOPRALENE FLAM 180 ALU

DESCRIPTION

SOPRALENE FLAM 180 ALU is a flexible SBS elastomeric bitumen waterproofing membrane with a non-woven polyester reinforcement.

SOPRALENE FLAM 180 ALU can be used as a protection layer on top of waterproofing systems where fire retardant properties are required.

The topside is protected by an embossed aluminium foil and the underside is covered by a thermofusible film.

APPLICATION FIELD

Designed for double layer application on horizontal surfaces, can be used for upstands, SOPRALENE FLAM 180 ALU is used for the following general applications;

- General roofing

APPLICATION METHOD

SOPRALENE FLAM 180 ALU is fully applied by torch-on or hot-air method including the overlaps.

INSTALLATION PROCEDURE

PRIMING

- When installed as top layer over a base sheet membrane, primer is not required,
- When installed over concrete or metal surface prime with ANTIROCK PRIMER at the rate specified in TDS.

HEAT WELDING

- Unroll membrane sheets onto the roof surface.
- Starting at the low point of the roof, lay out the membrane to ensure the plies are installed perpendicular to the roof slope, shingled to prevent back-water laps.
- Ensure specified side-laps and end-laps are maintained. End-laps should be staggered 1 m apart.
- As the membrane ply is unrolled, apply heat to the underside of the ply until the thermofusible plastic film melts sufficiently for full adhesion to the substrate, and full adhesion between plies.
- For hand-held roof torches, continuously move the torch side-to-side across the underside of the roll to melt the bitumen while continuously unrolling sheet. While unrolling and heating the sheet, ensure approximately 6 to 12 mm of hot bitumen flows ahead of the roll, and there is 3 to 6 mm bleed out at all laps. Ensure all side-laps are fully adhered and sealed watertight.
- Adjust application methods to accommodate varying environmental conditions as necessary to achieve the desired results.
- At the 150 mm end-laps ensure a fully adhered watertight seal. Melt the thermofusible plastic film or embed granules and remove other membrane surfacing, where present, using a torch or hot-air welder.
- All penetrations and upturn details should be waterproof as per SOPREMA Installation Guides and detail drawings.

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

PACKAGING

SPECIFICATIONS	SOPRALENE FLAM 180 ALU
Thickness	3.3 mm
Surface	Embossed aluminium foil (white or inox)
Underface	Thermofusible film
Roll dimensions	8 m x 1 m



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NOTE : All products manufactured by SOPREMA Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

TDS_SOPRALENE_FLAM_180_ALU_AR_0522

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PROPERTIES

PROPERTIES	TEST METHOD	SOPRALENE FLAM 180	SOPRALENE FLAM 180 ALU
Abrasion resistance*	AS 1580.403.2	NPD*	PASS
Bond strength to concrete	ASTM C794	1500 N/m	
Cyclic movement	CSIRO Moving joint test (B)	PASS	
Dimensional stability	ASTM D5147	MD: -0.09 % ; CD: -0.18%	
Elongation at break	AS 4654.1	MD: 55 % ; CD: 59 %	
Field seam strength	ASTM D1876	36.5 ±8 N/2.5cm	
Heat ageing	AS 4654.1 (AS 1145.3)	PASS ; no visual change	
Ultraviolet resistance*	AS 4654.1 (AS 1145.3)	PASS ; no visual change	
Heat resistance	ASTM D4799	110	
Tensile strength	ASTM D5147	910 N/5cm ; 530 N/5cm	
Durability	AS 4654.1	PASS	
Water vapour transmission rate	AS 4654.1	0 perm**	
SRI (white foil)	-	-	88

STORAGE AND HANDLING

Rolls must be stored upright, with the selvedge side on top. If stored outdoors, cover them with an opaque protection cover after removal of the delivery packaging.

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 the 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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