

SOPRALENE FLAM 180 & GR

TECHNICAL DATA SHEET

ANZ-TDS-09-SOPRALENE FLAM 180 & GR



WATERPROOFING

APPLICATIONS

ROOFING

FOUNDATIONS

DESCRIPTION

SOPRALENE FLAM 180 and SOPRALENE FLAM 180 GR are SBS modified bitumen waterproofing and roofing membranes. Both membranes are reinforced with polyester, with great mechanical characteristics, excellent dimensional stability and elastic performance. Sopralene Flam 180 top and bottom surface is covered with thermofusible plastic film. Sopralene Flam 180 GR top surface is covered with light grey granules, bottom surface is covered with thermofusible plastic film. SOPRALENE FLAM 180 and SOPRALENE FLAM 180 GR comply with Australian Standard 4654.1

USE - APPLICATION

SOPRALENE FLAM 180	SOPRALENE FLAM 180 GR
Base and top layer in multilayer roofing and waterproofing systems,	Top layer in multilayer roofing and waterproofing systems,
Single layer protected roofing and waterproofing membrane	Single layer roofing and waterproofing membrane,
When used as top layer, it must be protected (no UV exposure)	Can be used in both exposed and protected systems,
Can be fully heat welded with propane torch, Mini Macaden machine, or mechanically fixed (only when used as base sheet in multilayer roofing assemblies)	To be fully heat welded with propane torch, or Mini Macaden machine,

APPLICATION PROCEDURE

SUBSTRATE

- No work should be started until all surfaces are smooth, dry, and free of ice, snow or any other substance that may prevent the membrane from adhering properly,
- Substrate must have minimum 1% fall to ensure that water drains to drainage outlets,
- Do not install heat welded membranes directly onto combustable substrate,
- Concrete substrate must be fully cured before application of the membrane,
- Concrete substrate must have a Concrete Surface Profile (CSP) between 3 and 6 (As per International Concrete Repair Institute)
- Adhesion test is recommended prior to installation of membrane,
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator.





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PRIMER

- When installed as top layer over 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 and allow time to relax prior to heat welding.
- 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 meter apart.
- As the membrane ply is unrolled, apply heat to the underside of the ply until plastic burn-off film melts away 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 12mm of hot bitumen flows ahead of the roll, and there is 3 to 6mm 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 150mm end-laps ensure a fully adhered watertight seal. Melt the plastic burn-off 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 manuals and detail drawings,
- If in doubt contact: tech@soprema.com.au

PACKAGING

	SOPRALENE FLAM 180	SOPRALENE FLAM 180 GR
Thickness	3mm	4mm
Dimensions	10 x 1 m	8 x 1 m
Weight per roll	36 kg	39 kg
Rolls per pallet	30	30





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PROPERTIES

PROPERTY	TEST METHOD	SOPRALENE FLAM 180	SOPRALENE FLAM 180 GR
Abrasion resistance*	AS 1580.403.2	NPD*	PASS
Bond strength to concrete	ASTM C794	1500 N/m	
Cyclic movement	AS 4654.1	Pass	
Field seam strength	ASTM D1876	36.5 ±8 N/2.5cm	
Heat ageing	AS 4654.1 (AS 1145.3)	PASS	
Heat resistance	ASTM D5147	110	
Ultraviolet resistance*		NPD*	PASS
Water vapor transmission rate	ASTM E96	0 perm**	

* Applicable only to self-protected Sopralene Flam 180

** The results values are below the variation of the equipment. We consider that the sample have no water vapor transmission

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 or the contractor is responsible for checking the suitability of products for their intended use.

Note: Field service where provided, does not constitute supervisory responsibility. Suggestions made by Soprema Australia Pty Ltd either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Soprema Australia Pty Ltd are responsible for carrying out procedures appropriate to a specific application.

DOCUMENT CONTROL	
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