

PRODUCT DATA SHEET

TECHNICAL DATA SHEET 122009ME001
 SUPERSEDES: TECHNICAL DATA SHEET CFLMDR_190507SME1E001

DESCRIPTION


SOPRALENE® FLAM DR is a series of flexible heavy duty double reinforced SBS-modified bitumen sheet membranes for use in approved single or multi-ply layers. It is composed of a proprietary formulation of elastomeric styrene-butadiene-styrene (SBS) polymer modified bitumen and is reinforced with a tough, dimensionally stable composite non-woven polyester mat and fiberglass reinforcement. The topside and underside surfaced with thermofusible film.

STORAGE & HANDLING

Rolls must be stored in upright position, with selvedge side on top to prevent damage. Store rolls in a clean dry location and cover as necessary to protect from any environmental impact such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of SOPRALENE® FLAM DR.

USER APPLICATION

SOPRALENE® FLAM DR can be used in single ply or 2-ply, vertically and horizontally in substructure and superstructure applications. All the application guidelines are described in SOPREMA's Technical Manuals in force.

INSTALLATION		ACCESSORIES	SOPRADERE HT - SOLVENT BASED PRIMER
			AQUADERE HT - WATER BASED PRIMER
			SOPRABOARD SF - PROTECTION BOARD
			SOPRAMASTIC LM - BITUMINOUS MASTIC

ADVANTAGES	<ul style="list-style-type: none"> ■ Versatility: Designed to fit perfectly to the different user applications ■ Reliability: Proprietary blend offering high resistance to weathering ■ Durability: Superior waterproofing protection after aging ■ Reflectivity: Reduction of heat absorption by the system ■ Sustainability: Contribution to LEED ■ Warranty: Comprehensive warranty option programs ■ Recyclability: Product composition can be recycled
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HEALTH, SAFETY & ENVIRONMENT

The product does not contain any substance likely to be detrimental to health or to the environment and complies with generally admitted Health & Safety Requirements. For further information please refer to relevant Material Safety Data Sheet (MSDS).

TRACEABILITY

Product traceability is ensured through a manufacturing identification present on the packaging.

QUALITY MANAGEMENT

SOPREMA always recognises as a high level of importance the quality of the products, the environment and safety. For this reason, we operate independently monitored Quality Management Systems in line with ISO 9001:2015.



COMPOSITION & PACKAGING

PROPERTY	SOPRALENE FLAM DR 260		SOPRALENE FLAM DR 310	
	4P25	5P25	4P25	5P25
Cold flexibility	- 20 to -25 °C			
Reinforcement	200 g / m ² Polyester + 60 g / m ² Glass fibre		250 g / m ² Polyester + 60 g / m ² Glass fibre	
Thickness	4.0 mm	5.0 mm	4.0 mm	5.0 mm
Roll dimension	1 x 10 m			
Roll weight	50 kg	63 kg	50 kg	63 kg
Rolls per pallet	23 Rolls	16 Rolls	23 Rolls	16 Rolls
Top face	Film			
Underface	Thermofusible film			

COMPLIANCE	ASTM D6162 Type I	ASTM D6162 Type I & II
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TECHNICAL PROPERTIES

PROPERTY	STANDARDS	SOPRALENE FLAM DR 260	SOPRALENE FLAM DR 310
Tensile strength, MD / CMD	EN12311 - 1	1200 / 900 N / 5cm	1500 / 1000 N / 5cm
Elongation, MD / CMD	EN12311 - 1	45 / 50 %	50 / 50 %
Tensile strength, MD / CMD	ASTM D 5147	22 / 15 kN / m	29 / 19 kN / m
Elongation, MD / CMD	ASTM D 5147	55 / 60 %	65 / 65 %
Flow resistance at elevated temp.	EN 1110	105 °C	105 °C
Dimensional stability	EN 1107	≤ 0.5 %	≤ 0.5 %
Resistance to static puncture	EN 12730	L ₄ (25 kg)	L ₄ (25 kg)
Puncture resistance	ASTM E 154	1150 N	1400 N
Tear strength, MD / CMD	ASTM D 5147	800 / 500 N	950 / 600 N
Resistance to tearing, MD / CMD	EN 12310 - 1	250 / 300 N	300 / 350 N
Durability, Watertightness	EN 1928 : 2000	Conform	Conform
Shear resistance of joints	EN 12317 - 1	≥ 800 N / 5cm	≥ 950 N / 5cm
Water absorption @ 24 Hrs.	ASTM D 570	< 0.5 %	< 0.5 %
Resistance to hydrostatic pressure	ASTM D 5385	> 70 M	> 70 M

Note: All products manufactured by SOPREMA comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.
Data is represented by average values, unless noted otherwise.
All values are nominal, level ± 20 %

TESTING AND CERTIFICATIONS



SUSTAINABILITY AND ENVIRONMENT

