

SOPRALENE FLAM 180 AR 4 mm

SOPRALENE FLAM 180 AR 4 mm is a flexible SBS elastomeric bitumen waterproofing membrane with a non-woven polyester reinforcement.

The topside is covered by slate chippings and the underside is covered by a thermofusible film.

User application

SOPRALENE FLAM 180 AR 4 mm is used finishing layer for elastomeric bitumen waterproofing systems.

All the applications are described in Technical Approvals or **SOPREMA**'s Technical Guidelines in force.

Composition

	SOPRALENE FLAM 180 AR 4 mm
Reinforcement	Non-woven polyester
Binder	Elastomeric bitumen : blend of selected bitumen and SBS* thermoplastic polymers
Thickness MDV ⁽¹⁾ according to 13707 Minimum on overlap	4,0 mm (± 0,2 mm) 3,3 mm (indicative)
Topside	Slate chippings
Underside	Thermofusible film
Overlap	≥ 60 mm with a thermofusible film
*According to UEAtc directives concerning the normalization of waterproof elastomeric SBS bitumen coverings	
⁽¹⁾ MDV = Manufacturer's Declared Value	

Packaging

	SOPRALENE FLAM 180 AR 4 mm
Dimensions of the roll	8 m x 1 m
Weight of the roll	about 40 kg
Colours	Black, Grey, Matisse brown, Gauguin red, Veronese green, Cezanne sienna, Chagall grey or Van Gogh ochre
Storage	Upright on pallet with plastic wrapping
Roll lengths are given with a tolerance of < 1 %. Width of roll is given with a tolerance of 1% (UEAtc). Rolls must be stored upright on flat ground. During storage, protect the rolls against moisture. In cold weather, we recommend that the rolls be kept at a minimum temperature of + 2°C (+ 36 °F) for at least 5 hours before installation.	

Characteristics (outside CE marking)

	SOPRALENE FLAM 180 AR 4 mm
Static puncture resistance (NF P 84-352) - with ELASTOPHENE (FLAM) 25	≥ 25 kg (L4)
Dynamic puncture resistance (NF P 84-353) - with ELASTOPHENE (FLAM) 25	≥ 20 J (D3)

Installation

SOPRALENE FLAM 180 AR 4 mm must be applied by torch-on techniques or by heat welding.

Hot bitumen must not be used in the bonding process.

Special indications

Hygiene, health and environment:

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

Traceability:


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

Quality control:

SOPREMA has always attached the highest importance to the quality of its products, to the respect of environment and men.

For this reason, we apply an integrated management of the Quality and Environment certified **ISO 9001** and **ISO 14001**.

CE marking

 1119
SOPRALENE FLAM 180 AR 4 mm SOPREMA 14 rue de Saint-Nazaire – CS 60121 67025 STRASBOURG cedex 06 Construction Product Regulation (CPR) Declaration of Performance : DoP n° WPBEX231 Certificate of Factory Production Control : 1119-CPR-13132, 13133, 13134.
EN 13707 Membrane composed of modified elastomeric bitumen and non-woven polyester reinforcement. Topside is covered by slate chippings and the underside is covered by thermofusible film. Dimensions 8 m x 1 m x 4,0 mm. Applied by torch-on techniques, must not be applied with hot bitumen. Finishing layer.

Essential characteristics	Performances	Harmonised Technical Specification
Classification for external fire exposure (Note 1)	F_{ROOF} (t1,t2,t3,t4)	EN 13707:2004 + A2:2009
Reaction to fire	E	
Watertightness	Conform	
Tensile properties : Tensile strength L x T (N / 50 mm) Elongation L x T (%)	≥ 550 x 400 30 x 30	
Root resistance	NPD	
Resistance to static loading (kg)	20	
Resistance to impact (mm)	1000	
Resistance to tearing (N)	≥ 200	
Joint strength Peel resistance of joints (N / 50 mm) Shear resistance of joints (N / 50 mm)	≥ 100 ≥ 400	
Durability Flow resistance at elevated temperature after ageing	90°C	
Flexibility at low temperature	-16°C	
Dangerous substances (Notes 2 and 3)	Complies	

Note 1 : Since external fire performance depends on the other components of the roof build-up, no performance can be given.

Note 2 : This product does not contain asbestos or tar constituents.

Note 3 : Since there is no European test method available, no performance declaration for leaching behavior can be made. It must be made according to national rules in force in the place of use.

Additional characteristics	SOPRALENE FLAM 180 AR 4 mm
	MLV*
Flow resistance at elevated temperature (EN 1110)	100 °C
Dimensional stability (EN 1107-1)	0,5 %
*MLV = Manufacturer's Limiting Value: Minimum value as started by the manufacturer to be met during testing of type, internal quality control or external supervision with a confidence level of 95 %	