

SOPRALENE FLAM S 180-35

Description

SOPRALENE FLAM S 180-35 is a flexible SBS elastomeric bitumen waterproofing membrane with a non-woven polyester reinforcement.

The topside is covered by a thermofusible film and the underside is covered with fine sand.

Composition

	SOPRALENE FLAM S 180-35
Reinforcement	Non-woven polyester (180 g/m ²)
Binder	Elastomeric bitumen*: blend of selected bitumen and SBS thermoplastic polymers.
Thickness	≥ 3.5 mm
Topside	Thermofusible film
Underside	Fine sand

*According to UEAtc directives concerning the normalisation of waterproof elastomeric SBS bitumen coverings.

Characteristics

	SOPRALENE FLAM S 180-35	
	MDV ¹	MLV ²
Tensile Strength (EN 12311-1)		
-longitudinal	900 N / 5 cm	650 N/ 5cm
-transversal	650 N / 5 cm	500 N/ 5cm
Elongation (EN 12311-1)		
-longitudinal	45%	35 %
-transversal	55%	40 %
Low temperature flexibility (EN 1109)	No observed cracks at -20°C	No observed cracks at -16°C
Flow resistance at high temperature (EN 1110)	105°C	100°C
Dimensional stability (EN 1107-1)	0,3 %	0,5 %
Static puncture resistance (NF P 84-352)	> 25 kg	20 kg

⁽¹⁾MDV = Manufacturer's determined value: An arithmetic mean value of a minimum number of independent measurements.

⁽²⁾MLV = Manufacturer's limiting value: Minimum or maximum 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 %.

Packaging

SOPRALENE FLAM S 180-35	
Roll dimensions	10 m x 1 m
Roll weight	about 45 kg
Storage	Upright on pallet with plastic wrapping, protected against moisture

Roll lengths are given with a tolerance of $\leq 1\%$. Roll can be cut in two parts. In this case, the shortest length is 3 meters and the total length is equal to the nominal length.
Width of roll is given with a tolerance of 1% (UEAtc).
Rolls must be stored upright on flat ground. Pallets may be stacked to a maximum of two high with separating layer.
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.

User application

SOPRALENE FLAM S 180-35 is to be used as a first, secondary layer or single layer under protection for elastomeric bitumen waterproofing systems.

All the applications are described in the French Standards DTU, Technical Guidelines or Technical Approvals. For further details refer to specific technical information.

Installation

SOPRALENE FLAM S 180-35 must be applied for the sand underside, only by torch-on techniques, hot bitumen or by cold bonding (**SOPRACOLLE 300 N**) onto a compatible surface.

Upperface will be laid by heat welding or torch-on techniques only. Hot bitumen not be used on the thermofusible film.

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.

Quality control:

SOPREMA has always attached the highest importance to Quality Control.


For this reason, we operate an independently monitored Quality Assurance System in compliance with **BS EN ISO 9001: 2008**, certified by **BSI Management System**.



CE Marking

SOPRALENE FLAM S 180-35 is a flexible membrane for roof waterproofing and complies with EN 13707, thereby bearing the CE standard marking.

General information concerning the CE marking, expressed in MLV, can be found below. For more information, please refer to the relevant Declaration of Conformity.

 CSTB 0679	
<p><u>SOPRALENE FLAM S 180-35</u> SOPREMA S.A.S. B.P. 60121 – 14, rue de St-Nazaire 67025 STRASBOURG CEDEX 1 06 Certificate of Factory Production Control 0679-CPD-0130 / 0679-CPD-0133 0679-CPD-0393 / 0679-CPD-0602 0679-CPD-0343</p>	
<p><u>EN 13707</u> Membrane composed of modified elastomeric bitumen and a non-woven polyester reinforcement. Topside is covered with a thermofusible film and underside with fine sand. Dimensions : 10 m x 1 m x 3.5 mm.</p> <p>Membrane must be installed either by torch-on techniques, or by bonding with hot bitumen or cold bonding glue.</p> <p>Underlayer, top layer or single layer under additional protection.</p>	
Classification for external fire exposure (EN 13501-5)	NPD
Reaction to fire (EN 13501-1)	E
Tensile Strength in longitudinal direction (EN 12311-1)	650 N/ 5cm
Tensile Strength in transversal direction (EN 12311-1)	500 N/ 5cm
Elongation in longitudinal direction (EN 12311-1)	35 %
Elongation in transversal direction (EN 12311-1)	40 %
Low temperature flexibility (EN 1109)	- 16 °C
Flow resistance at high temperature (EN 1110)	100 °C
Watertightness (EN 1928)	Conform