

# SOPRALENE FLAM JARDIN

## Description

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

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

**SOPRALENE FLAM JARDIN** bitumen mass contains anti-root penetration properties for green roofs and complies with EN 13948 (FLL procedure).

## Composition

SOPRALENE FLAM JARDIN	
Reinforcement	Non-woven polyester (200 g/m <sup>2</sup> )
Binder	Elastomeric bitumen*: blend of selected bitumen and SBS thermoplastic polymers
Thickness	3,2 mm (on overlap) 3,9 mm on slates
Topside	Slate chippings
Underside	Thermofusible film
Overlap	≥ 6cm

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

## Characteristics

	SOPRALENE FLAM JARDIN	
	MDV <sup>1</sup>	MLV <sup>2</sup>
Tensile Strength (EN 12311-1)		
-longitudinal	800 N/ 5cm	800 N/ 5cm
-transversal	650 N/ 5cm	550 N/ 5cm
Elongation (EN 12311-1)		
-longitudinal	50 %	40 %
-transversal	50 %	40 %
Resistance to nail tearing (EN 12310-1)		
-longitudinal	200 N	150 N
-transversal	200 N	150 N
Low temperature flexibility (EN 1109)	No cracks at - 20°C	No 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) with <b>ELASTOPHENE (FLAM) 25</b>	25 kg (L4)	
Dynamic puncture resistance (NF P 84-353) with <b>ELASTOPHENE (FLAM) 25</b>	20 Joules (D2)	

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

<sup>(2)</sup> 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

<b>SOPRALENE FLAM JARDIN</b>	
Roll dimensions	8 m x 1 m
Roll weight	about 35 kg
Storage	Upright on pallet with plastic wrapping, protected against moisture

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. Pallets may be stacked to a maximum height of two pallets 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 JARDIN** is to be used as a top layer under green roofs and **SOPRANATURE** vegetation in all two-ply elastomeric bitumen waterproofing system.

Can also be used for foundation walls with a protection.

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

## Installation

**SOPRALENE FLAM JARDIN** must be applied only by heat welding or torch-on techniques. 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 more 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 9001:2000**, certified by **BSI Management System**.



## CE Marking

**SOPRALENE FLAM JARDIN** 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.

 <b>CSTB 0679</b>	
<p><b><u>SOPRALENE FLAM JARDIN</u></b>  <b>SOPREMA S.A.S.</b>          B.P. 60121 – 14, rue de St-Nazaire          67025 STRASBOURG CEDEX 1  <b>06</b>          Certificate of Factory Production Control          0679-CPD-0130, 0132, 0133, 0393</p>	
<p><b>EN 13707</b>          Membrane composed of modified elastomeric bitumen and a non-woven polyester reinforcement. Topside is protected with slate chippings and underside is covered with a thermofusible film.          Dimensions : 8 m x 1 m x 3,9 mm.</p> <p>Membrane is not be used for single layer application. Must not be applied with hot bitumen. Will be used for green roofs.</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)	800 N/ 5cm
Tensile Strength in transversal direction (EN 12311-1)	550 N/ 5cm
Elongation in longitudinal direction (EN 12311-1)	40 %
Elongation in transversal direction (EN 12311-1)	40 %
Low temperature flexibility (EN 1109)	- 16°C
Flow resistance at high temperature (EN 1110)	100°C
Flexibility (EN 1109), after ageing test (EN 1296)	0°C
Heat resistance (EN 1110), after ageing test (EN 1296)	90°C
Static puncture resistance (EN 12730)	20 kg
Choc resistance (EN 12691)	1500 mm
Tear resistance in longitudinal and transversal directions (EN 12310-1)	150 N
Shear resistance of joints (EN 12317-1)	500 N / 5cm
Peeling resistance of joints (EN 12316-1)	100 N / 5cm
Watertightness (EN 1928)	Conform
Resistance to root penetration (EN 13948)	Conform

**SOPRALENE FLAM JARDIN** also complies with EN 13969, confirmed by the CE marking, according to Certificate of Factory Production Control n° 0679-CPD-0131 and 134.