

SOPRALENE JARDIN

Description

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

SOPRALENE JARDIN bitumen mass contains anti-root penetration properties for green roof.

The topside is covered by slate chippings and the underside by fine sand.

Composition

| | SOPRALENE JARDIN |
|---------------|---|
| Reinforcement | Non-woven polyester |
| Binder | Elastomeric bitumen*: blend of selected bitumen and SBS thermoplastic polymers. |
| Thickness | 3.2 mm (- 5%) on overlap 3.9 mm ± 0.2 on slates |
| Topside | Slate chippings |
| Underside | Fine sand |
| Overlap | Width ≥ 6 cm |

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

Characteristics

| | SOPRALENE JARDIN | |
|--|------------------------------|------------------------------|
| | MDV ¹ | MLV ² |
| Tensile Strength (EN 12311-1) | | |
| -longitudinal | 1100 N/5 cm | 950 N/ 5cm |
| -transversal | 900 N/5 cm | 800 N/ 5cm |
| Elongation (EN 12311-1) | | |
| -longitudinal | 45 % | ≥ 40 % |
| -transversal | 50 % | ≥ 40 % |
| Resistance to nail tearing (EN 12310-1) | | |
| -longitudinal | 250 N | 150 N |
| -transversal | 250 N | 150 N |
| 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 at 80°C (EN 1107-1) | 0.3 % | ≤ 0.5 % |
| Resistance to static puncture (NF P 84-352) with underlayer ELASTOPHENE 25 | | 25 kg (L4) |
| Resistance to dynamic puncture (NF P 84-352) with underlayer ELASTOPHENE 25 | > 20 Joules (D3) | 20 Joules (D3) |

⁽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 JARDIN |
|-----------------|---|
| 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 $\leq 1\%$. 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 JARDIN is to be used as a top layer under green roofs and **SOPRANATURE** vegetation in all two-ply elastomeric bitumen waterproofing systems.

SOPRALENE JARDIN is also used for upstands of these 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 JARDIN must be applied by heat welding, torch-on techniques or bonded with hot bitumen.

Special indications

Test of resistance for the passage of the roots, from the FLL process, were made at:

- The General Institute of Botany from the University of Hamburg.
- The High National School of Horticulture of Versailles

After 4 years of testing, no passage of root was found. The test report is available on request.

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 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.

| | |
|---|------------|
|  CSTB 0679 | |
| <p><u>SOPRALENE JARDIN</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-0393 / 0679-CPD-0133 0679-CPD-0130</p> | |
| <p><u>EN 13707</u> Membrane is composed of anti-roots elastomeric bitumen and a non-woven polyester reinforcement. Topside is protected by slate chippings and underside is covered with fine sand. Dimensions : 8 m x 1 m x 3.9 mm.</p> <p>Membrane must be installed by torch-on techniques or bonded.</p> <p>Finishing layer for waterproofing system.</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) | 950 N/ 5cm |
| Tensile Strength in transversal direction (EN 12311-1) | 800 N/ 5cm |
| Elongation in longitudinal direction (EN 12311-1) | 40 % |
| Elongation in transversal direction (EN 12311-1) | 40 % |
| Resistance to nail tearing in longitudinal direction (EN 12310-1) | 150 N |
| Resistance to nail tearing in transversal direction (EN 12310-1) | 150 N |
| Low temperature flexibility (EN 1109) | - 16 °C |
| Flow resistance at high temperature (EN 1110) | 100 °C |
| Resistance to impact (EN 12691) | 1500 mm |
| Static puncture resistance (EN 12730) | 20 kg |
| Peeling resistance of joints (EN 12316-1) | 100 N/5 cm |
| Shear resistance of joints (EN 12317-1) | 500 N/5 cm |
| Resistance to root penetration (EN 13948) | Conform |
| Watertightness (EN 1928) | Conform |

SOPRALENE JARDIN also complies with **EN 13969**, confirmed by the CE marking, according to Certificate of Factory Production Control n° 0679-CPD-0131 and 0134