

# ELASTOPHENE FLAM 180-25

## Description

**ELASTOPHENE FLAM 180-25** is a flexible SBS elastomeric bitumen waterproofing membrane with a non-woven polyester reinforcement.

Both sides are covered by a thermofusible film.

## Composition

	<b>ELASTOPHENE FLAM 180-25</b>
Reinforcement	Non-woven polyester (180g/m <sup>2</sup> )
Binder	Elastomeric bitumen* : blend of selected bitumen and SBS thermoplastic polymers
Thickness	≥ 2,5 mm
Weight	About 3.1 kg/m <sup>2</sup>
Topside	Thermofusible plastic film
Underside	Thermofusible plastic film

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

## Characteristics

	<b>ELASTOPHENE FLAM 180-25</b>	
	MDV <sup>1</sup>	MLV <sup>2</sup>
Tensile Strength (EN 12311-1)		
-longitudinal	800 N/ 5cm	550 N/ 5cm
-transverse	650 N/ 5cm	500 N/ 5cm
Elongation (EN 12311-1)		
-longitudinal	45 %	35 %
-transverse	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) with ELASTOPHENE FLAM 25	25 kg (L4)	
Dynamic Puncture resistance (NF P 84-353) with ELASTOPHENE FLAM 25	20 Joules (D3)	

<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>ELASTOPHENE FLAM 180-25</b>	
Roll dimensions	10 m x 1 m
Roll weight	about 31 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

**ELASTOPHENE FLAM 180-25** is to be used as a first or secondary layer under protection in all two-ply 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

**ELASTOPHENE FLAM 180-25** 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 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

**ELASTOPHENE FLAM 180-25** 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>ELASTOPHENE FLAM 180-25</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 / 0679-CPD-0133          0679-CPD-0602 / 0679-CPD-0393          0679-CPD-0343</p>	
<p><b><u>EN 13707</u></b>          Membrane composed of modified elastomeric bitumen and a non-woven polyester reinforcement. Topside and underside are covered with a thermofusible film.          Dimensions: 10 m x 1 m x 2.5 mm.</p> <p>Membrane is not be used for single layer application. Must not be applied with hot bitumen.</p> <p>Underlayer or top 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)	550 N/ 5cm
Tensile Strength in transverse direction (EN 12311-1)	500 N/ 5cm
Elongation in longitudinal direction (EN 12311-1)	30 %
Elongation in transverse direction (EN 12311-1)	35 %
Low temperature flexibility (EN 1109)	- 16 °C
Flow resistance at high temperature (EN 1110)	100 °C
Watertightness (EN 1928)	Conform

**ELASTOPHENE FLAM 180-25** also complies with EN 13969, confirmed by the CE marking, according to Certificate of factory production control n° 0679-CPD-0131 and 0134.