

## PARADIENE FM

### PRODUCT DESCRIPTION AND USES

Very high performance reinforced SBS elastomeric bitumen membrane for waterproofing works used as base layer of multi-layers system for not accessible roof and technical roofs over steel deck insulated structures with 3% minimum slope.

Paradiene FM allows an easy mechanically fixed installation thanks to the mark-line with graduations alongside lap. Side lap are torched.

It can be used also for miscellaneous works according to Siplast technical documents.

This product is designed for new works and refurbishment works on approved substrates.

### PRODUCT APPROVALS

- CSTB approval: Paradiene FM is approved by CSTB (Paracier Document Technique d'Application) for use in Siplast insulated steel roof deck constructions and insulated and non-insulated concrete roof deck constructions as mechanically fixed, two layers, built-up roof waterproofing system on flat and pitched roofs.
- FM approval: Paradiene FM is approved by FM Approvals (FM Standard 4470) for use in Siplast Class 1 insulated steel roof deck constructions, subject to FM conditions and limitations.
- Fire rating: Paradiene FM it is classified B<sub>Roof</sub>T<sub>3</sub> according with EN 13501 -5 for Roofs External Fire performance on a system build as follow:
  - Steel deck or concrete deck insulated with mineral wool and protected with Paradiene FM and Paracier as two layer system.
  - Steel deck or concrete deck insulated with PSE class M1 with fire retardant agent and protected with Paradiene FM and Paradiene 30.1 FE GS as two layers system.

### COMPOSITION

Surface	Polyethylene film
Blend	SBS (Styrene-Butadiene-Styrene) elastomeric bitumen
Reinforcement	Reinforced polyethylene nonwoven
Under face	Silica parting agent

### DIMENSIONAL CHARACTERISTICS

	7.5 m	12.5 m
Roll nominal length (m)	7.50	12.50
Nominal width (mm)	1000	1000
Nominal thickness (mm)	2.6	2.6
Area density (kg/m <sup>2</sup> )	3.419	3.419
Mass per roll (kg)	25.7	42.8

## PERFORMANCES

Test	Standard	Unit	Average value
Tensile strength at max	EN 12 311-1	N/50 mm	650 x 350
	ASTM D 5147 section 6	kN/m	12.6 x 7.1
Elongation at max	EN 12 311-1	%	35 x 35
	ASTM D 5147 section 6	%	47.3 x 47.3
Cold temperature flexibility	EN 1109	°C	-20
	ASTM D 5147 section 11	°C	≤ - 20
Heat flow test	EN 1110	°C	100
	ASTM D 5147 section 15	°C	≥ 100
Dimensional stability	EN 1107-1	%	-0.5
	ASTM D 5147-10	%	-0.5
Waterproofing	EN 1928		Pass

## ISO 9001 REFERENCE DOCUMENT

<p>Our products are manufactured by certified ISO 9001 plants</p>	
---	---

## PACKAGING

	7.5 m	12.5 m
Rolls quantity per truck pallet	40	24
Rolls quantity per container pallet	48	27
Rolls quantity per wooden box	46	25

## GENERALITIES ABOUT APPLICATION

Using	The generalities about the product using are set out in the ZSA STANDARD
Application	The generalities about the product application are set out in the ZTA STANDARD
Overlaps	Current building practices concerning overlaps are set out in the ZRA STANDARD
Slopes	Current building practices concerning slopes are set out in the ZPA STANDARD

## COMPLEMENTARY INFORMATIONS

Values	Where 2 values for given characteristics are shown, the first is for longitudinal direction and the second is for the cross direction.
Tolerances	The average values derived from standard tests and are subject to the usual production variations. Some slight variations can be noticed as the values are based on the average values obtained from several plants.
Modification(s)	Our company reserves the right to modify its composition as a result of technologic and experiments improvements. This product data sheet supersedes the previous edition, to obtain the up-date technical data sheet, please contact our technical department
Hazardous classification	It is not classified as dangerous according to the international regulation (ADR, RID, IATA, and RTMDR)
Complementary information	This membrane is only a product technical data sheet, regarding each waterproofing design, please, consult the concerned technical agreement and in case of doubt contact our technical department.
Storage	This product is packaged in rolls set up vertically on pallet or wooden box. It must be stored vertically under shelter, away from heat sources.