

## Product Technical Information

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# 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 along side 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:

**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 layer, 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> T3 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 layer system.



### Composition

Top surfacing: polyethylene film

Bitumen compound: SBS (Styrene-Butadiene-Styrene) elastomeric bitumen

Reinforcement: Polyester 180 gr/m<sup>2</sup>

Back surfacing: Silica Parting Agent.

### Dimensions

#### Nominal Value

Thickness main surface (mm)	2.5	2.5
Roll length and width (m)	7.5 x 1	12.5 x 1
Nominal weight kg/m <sup>2</sup>	3.2	3.2
Nominal weight roll (kg)	24	40.5

### Packaging

Roll length and width (m)	7.5 x 1	12.5 x 1
Rolls quantity per truck pallet	40	24
Rolls quantity per container pallet	52	27
Rolls quantity per wooden box	46	25

## ISO 9001 REFERENCE DOCUMENT

Our company has been awarded the ISO 9001 certificate for all its establishments in France.

Our company reserves the right to modify its composition as a result of technological and experimental improvements.

To obtain the up-date technical data sheet, please contact Siplast



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## Paradiene FM

### Physical and Mechanical Properties

**According with EN 13707**

Property (as Manufactured)	Test Method	Units	Nominal values
Tensile strength at max	EN 12 311-1	N/50mm	650 x 350
Elongation at max	EN 12 311-1	%	35 x 35
Nail tearing resistance	EN 12 310-1	N	200 x 200
Cold temperature flexibility	EN 1109	°C	≤ - 20
Heat flow test	EN 1110	°C	≥ 100
Dimensional stability	EN 1107-1	%	≤ - 0.5
Static loading resistance again puncture in combination with PARADIENE 30.1 GS	NF P 84-352	kg	15 (I3)
Dynamic loading resistance again puncture in combination with PARADIENE 30.1 GS	NF P 84-353	Joule	10
Waterproofing	EN 1928	-	Pass

**According with ASTM D 5147**

Property (as Manufactured)	Test Method	Units	Nominal values
Tensile strength at max	ASTM D 5147 section 6	kN/m	12.6 x 7.1
Elongation at max	ASTM D 5147 section 6	%	47.3 x 47.3
Cold temperature flexibility	ASTM D 5147 section 11	°C	≤ - 20
Heat flow test	ASTM D 5147 section 15	°C	≥ 100
Dimensional stability	ASTM D 5147 section 10	%	≤ - 0.5

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### Other informations

Values	Where 2 values for given characteristics are shown, the first is for longitudinal direction and the second is for the cross direction.
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, et RTMDR)
Divers	This product 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.