

Technical Commercial data Sheet

Strada

Waterproofing bitumen polymer membrane for bridges and viaducts



Dimensional features

Length	10 m - 1% (UNI EN 1848-1)	Toll. ≥
Width	1 m - 1% (UNI EN 1848-1)	Toll. ≥
Thickness	3/4/5 mm (UNI EN 1849-1)	Toll. 0,4 mm



Description

The STRADA membranes are realized with an elastoplastomeric compound (BPP) with a -15°C cold flexibility. The reinforcement consists in a high weight spunbond nonwoven polyester.

STRADA is also available in the "TEX" version with "DECOTEX" treatment, consisting in the application on the upper face of a special black polypropylene tissue.

Application

- Use Personal Protective Equipment as requested by law;
- Clean properly the surface on which membranes has to be applied;
- STRADA is meant to be applied by flame with a gas propane blow torch by heating the lower face, covered with a special thermo-fusible film;
- Apply between +5° C and + 35° C.

Recommended Use

The STRADA membranes can be employed on structures of any type, like base layers, basement structures, earth retention walls and foundations. STRADA 4 MM P and STRADA 5 MM P can be used as top layer. STRADA membranes are particularly suitable for the waterproofing of bridges and viaducts and carriage able roofs (EN 14695 certified).

Storage

Keep the rolls in warehouse, not exposed to the sun rays and at a higher temperature than +5°C. Keep the rolls in the upright position. If possible, avoid stacking pallets, especially with slated membranes. It is advisable to use the product within 2/3 months from delivery.

Type	Reinforcement	Upper facing	Thickness	m ² per pallet
STRADA 3 MM P	Polyester	Sand	3 mm	250
STRADA 4 MM P	Polyester	Sand	4 mm	230
STRADA 4 MM P TEX	Polyester	Polypropylene TNT	4 mm	230
STRADA 5 MM P	Polyester	Sand	5 mm	160

Uses	EN 13707 System 2+	Base layer Middle layer Under heavy protection
	EN 13969 System 2+	Foundations Earth retention
	EN 14695 System 2+	Concrete structures of bridges and other concrete structures subject to traffic



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CODICE: STCBE 008
REVISIONE: 07
DATA: april 2016
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Saint-Gobain PPC Italia S.p.A. – Brand Isover

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Test	Standard Reference	STRADA P	TOL.
Visible Faults	UNI EN 1850-1	absent	-
Straightness	UNI EN 1848-1	10 mm	≤
Watertightness	UNI EN 1928	60 kPa	≥
Cold flexibility	UNI EN 1109	- 15 °C	≤
Cold flexibility after ageing	UNI EN 1296 UNI EN 1109	- 5 °C	+ 15 °C
L dimensional stability	UNI EN 1107-1	- 0,5 %	≥
Flow resistance	EN 1110	140 °C	≥
Flow resistance after ageing	UNI EN 1296 UNI EN 1109	120 °C	- 10 °C
Tensile strength at breaking L/T	UNI EN 12311-1	1200 N/5 cm 1000 N/5 cm	- 20 %
Overlaps tear resistance L/T	UNI EN 12317-1	1100 N / 900 N	- 20 %
Elongation at breaking L/T	UNI EN 12311-1	45% / 45%	- 15 v.a.
Tear resistance (B method) L/T	UNI EN 12310-1	200 N 200 N	- 30 %
Static load resistance	UNI EN 12730	25 Kg	≥
Dynamic punching resistance	UNI EN 12691	1750 mm	≥
Vapour permeability	UNI EN 1931	μ 20000	-
Water absorption	UNI EN 14223	1,5 %	≤
Adhesion strength	UNI EN 13596	0,4 N/mm ²	≥
Resistance to cutting stress	UNI EN 13653	0,15 N/mm ²	≥
Crack bridging ability	UNI EN 14224	- 10°C	≤
Heat conditioning compatibility	UNI EN 14691	100 %	-
Resistance to compaction of asphalt layer	UNI EN 14692	Passes the test	-
Behaviour during drain asphalt application	UNI EN 14693	NPD	-
Resistance to dynamic water pressure after damaging by pre-treatment	UNI EN 14694	Passes the test	-
UV ageing	UNI EN 1297	Passes the test	-
Fire reaction	EN 13501-1	NPD	-
External fire performance	EN 13501-5	F roof	-
Watertightness after exposure to chemical agents artificial ageing	UNI EN 1928 UNI EN 1847/ UNI EN 1296	NPD	-
Dangerous substances	-	Absent	-

The Saint-Gobain PPC Italia S.p.A. quality system is certified according to EN ISO 9001

Follow proper application and storage modalities.

The CE marking of this bituminous membrane is in accordance with the European Construction Products Regulation 305/2011, is in agreement to the reference technical standards and is supported by certification no. 1370-CPR-0050.

Saint Gobain PPC Italia has the right to change the technical data of this data sheet any time with no need of notice.



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