





TESTUDO®

- TESTUDO SPUNBOND POLYESTER TIPO 25
- TESTUDO SPUNBOND POLYESTER TIPO 30

REINFORCED ELASTOPLASTOMERIC POLYMER-BITUMEN WATERPROOFING MEMBRANE MADE OF DISTILLED BITUMEN, PLASTOMERS AND ELASTOMERS



CATEGORY	CHARACTERISTICS
 PLASTOMERIC	 WATERPROOFING

DESCRIPTION

These are membranes reinforced with high weight, isotropic, thermally fixed, rot-proof, "non-woven" single strand Spunbond polyester fabric. The reinforcement is very strong, has a notable ultimate elongation and an optimal resistance to puncture and piercing.

The **TESTUDO** membranes are made up of distilled bitumen, selected for industrial use, with a high content of elastomeric and plastomeric polymer additives to obtain a phase inversion compound whose continuous phase is formed by polymers in which the bitumen is dispersed, where the characteristics are determined by the polymeric matrix and not by the bitumen even if this is the most consistent ingredient.

The performance of the bitumen is therefore incremented along with the durability and the resistance to high and low temperatures while the already optimum adhesive and impermeable qualities of the bitumen remain unchanged. The membranes are produced in various thicknesses and have the top face coated with a uniformly distributed, fine serigraphed talc, a patented treatment which makes it possible to quickly unroll the rolls and install the membranes with the reliable and quick welding of the joints and an optimal adherence to the hot asphalt of a fresh road surface. The underside of the membranes is coated with Flamina, a plastic film that melts when torched and which is embossed both to obtain the pre-tension and therefore the optimal retraction of the film and also to offer the torch a greater surface area for faster and more reliable installation. When the membrane is dry laid or spot bonded, the embossing diffuses the vapour.

FIELDS OF USE

TESTUDO membranes are characterized by a high resistance to puncture and are therefore particularly suitable for waterproofing systems where high mechanical resistance is required, such as:

Foundations, earthquake-proof foundations, car parks, water works, bridges, viaducts, tunnels, subways, geological works, etc., anti-acid protection, roofing with or without thermal insulation and renovation work.

TESTUDO SPUNBOND POLYESTER 25 is conform to the tests of the "Central Laboratory for French Bridges and Roads", the Belgian Civil Engineering Test Laboratory and is approved by the SNCF (French Railways).

TESTUDO SPUNBOND POLYESTER 30 is conform to the Italian Motorways Company's specifications.



INTENDED USE OF "CE" MARKING SPECIFIED ACCORDING TO THE AISPEC-MBP GUIDELINES

EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

• **Under layer or intermediate layer in multi-layer systems without permanent heavy surface protection**

- TESTUDO SPUNBOND POLYESTER 25 4 mm
- TESTUDO SPUNBOND POLYESTER 25 5 mm
- TESTUDO SPUNBOND POLYESTER 30 4 mm
- TESTUDO SPUNBOND POLYESTER 30 5 mm

• **Upper layer in multi-layer systems without permanent heavy surface protection**

- TESTUDO SPUNBOND POLYESTER 25 4 mm
- TESTUDO SPUNBOND POLYESTER 25 5 mm
- TESTUDO SPUNBOND POLYESTER 30 4 mm
- TESTUDO SPUNBOND POLYESTER 30 5 mm

• **Single-layer without permanent heavy surface protection**

- TESTUDO SPUNBOND POLYESTER 25 4 mm
- TESTUDO SPUNBOND POLYESTER 25 5 mm
- TESTUDO SPUNBOND POLYESTER 30 4 mm
- TESTUDO SPUNBOND POLYESTER 30 5 mm

• **Single-layer under heavy protection**

- TESTUDO SPUNBOND POLYESTER 25 4 mm
- TESTUDO SPUNBOND POLYESTER 25 5 mm
- TESTUDO SPUNBOND POLYESTER 30 4 mm
- TESTUDO SPUNBOND POLYESTER 30 5 mm

• **Under heavy protection in multi-layer systems**

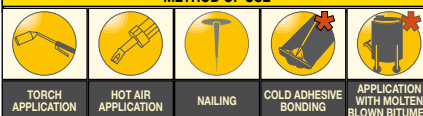
- TESTUDO SPUNBOND POLYESTER 25 4 mm
- TESTUDO SPUNBOND POLYESTER 25 5 mm
- TESTUDO SPUNBOND POLYESTER 30 4 mm
- TESTUDO SPUNBOND POLYESTER 30 5 mm

EN 13969 - BITUMEN DAMP PROOF SHEET INCLUDING BITUMEN BASEMENT TANKING SHEETS

• **Membranes for foundations**

- TESTUDO SPUNBOND POLYESTER 25 4 mm
- TESTUDO SPUNBOND POLYESTER 25 5 mm
- TESTUDO SPUNBOND POLYESTER 30 4 mm
- TESTUDO SPUNBOND POLYESTER 30 5 mm

METHOD OF USE



* For waterproofing membranes with **TEXFLAMINA** underface finish only

CERTIFICATIONS



Bureau Veritas



TECHNICAL CHARACTERISTICS

	T	TESTUDO SPUNBOND POLYESTER 25		TESTUDO SPUNBOND POLYESTER 30	
		4 mm	5 m	4 mm	5 mm
Thickness (EN 1949-1)	±0,2	4 mm	5 m	4 mm	5 mm
Roll size (EN 1848-1)	≥	1×10 m	1×10 m	1×10 m	1×10 m
Reinforcement		"Non-woven" Spunbond polyester		"Non-woven" Spunbond polyester	
Watertightness (EN 1928 - B method)	≥	60 kPa		60 kPa	
• after ageing (EN 1926-1928)	≥	60 kPa		60 kPa	
Peel resistance (EN 12316-1)	-20 N	NPD		NPD	
Shear resistance (EN12317-1)	-20%	500/500 N/50 mm		500/500 N/50 mm	
Maximum tensile force Long./Trasv. (EN 12311-1)	-20%	1.000/900 N/50 mm		1.100/1.000 N/50 mm	
Elongation (EN 12311-1)	-15 V.A.	50/50%		50/50%	
Resistance to impact (EN 12691 - A method)		1.500 mm		1.500 mm	
Resistance to static loading (EN 12730)		20 kg		20 kg	
Resistance to tearing (nail shank) (EN 12310-1)	-20%	200/200 N		250/250 N	
Flexibility to low temp. (EN 1109)	≤	-15°C		-15°C	
• after ageing at elevated temperature (EN 1296-1109)	+15°C	-5°C		-5°C	
Flow resistance at elevated temperature (EN 1110)	≥	120°C		120°C	
• after ageing at elevated temperature (EN 1296-1110)	-10°C	110°C		110°C	
UV ageing (EN 1297)		Test passed		Test passed	
Reaction to fire class (EN 13501-1)		Euroclass F		Euroclass F	
External fire performance (EN 13501-5)		F _{roof}		F _{roof}	

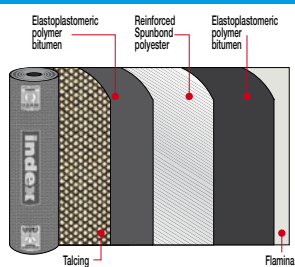
INDEX's exclusive production systems are covered by registered patents.

Fig. the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

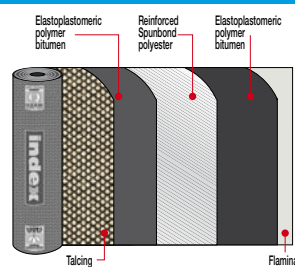
The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX S.p.A. at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Consider

MEMBRANE COMPOSITION

TESTUDO SPUNBOND POLYESTER 25



TESTUDO SPUNBOND POLYESTER 30



PRODUCT FINISH



EMBOSSING FLAMINA. The embossing on the lower surfaces of the membranes finished with Flamina film makes it possible to lay the product precisely and quickly; forming a smooth surface when melted with the torch. It indicates the correct melting temperature and lets the film retract faster. The embossing also enables optimal vapour diffusion; in spot bonded and loose laid installation, in the points where it remains intact, preventing blisters and swelling.



TALCING. The talcing of the top face is carried out with a technique which evenly spreads the talc over the top surface with a special pattern, preventing accumulation and zones without talc. This new system makes it possible to quickly unroll the rolls and gives the surface an appearance which is pleasing to the eye.

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE
• IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS

index

Construction Systems and Products

Via G. Rossini, 22 - 37060 Castel D'Azzano (VR) - Italy - C.P.67 - Tel. 045.8546201 - Fax 045.512444

INTERNET: www.indexspa.it

E-MAIL: index.export@indexspa.it

