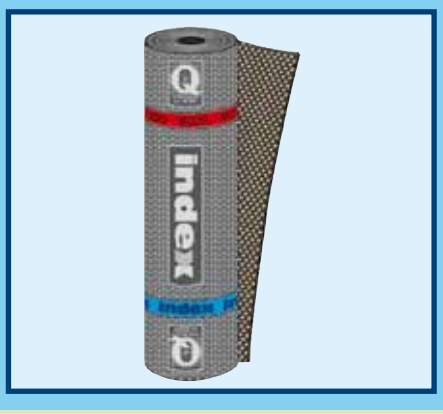


MODO POLIESTERE MODO/V

REINFORCED ELASTOMERIC WATERPROOFING POLYMER-BITUMEN MEMBRANE

GRANTS *LEED* CREDITS

CATEGORY	CHARACTERISTICS		ENVIRONRMENTAL							METHOD OF USE		
EP		Reazione al fuoco		ASBESTOS FREE	TAR FREE	CHLORINE FREE						
ELASTOPLASTOMERIC	WATERPROOF	REACTION TO FIRE	ECO GREEN	ASBESTOS FREE	TAR FREE	CHLORINE FREE	RECYCLABLE	NON DANGEROUS WASTE	EXHAUSTED OIL FREE	TORCH APPLICATION	HOT AIR APPLICATION	NAILING

DESCRIPTION

The **MODO** membranes are made up of distilled bitumen, selected for industrial use, with elastomeric and plastomeric polymers added 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 increased 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. **MODO** is produced in various thicknesses with a reinforcement in fibreglass mat and in stabilized “non woven” polyester fabric.

MODO POLYESTER is reinforced with a rot-proof “non woven” polyester fabric composite, stabilized with fibreglass mat which is very strong and elastic with optimal dimensional stability in hot conditions which reduces the problems of the banana effect and the retraction of head lap joints as it is 2 to 3 times more stable than normal reinforcements in “non woven” polyester fabric.

MODO/V is reinforced with rot-proof fibreglass mat which is strengthened longitudinally and has high dimensional stability properties.

The **MODO POLYESTER** and **MODO/V** membranes, have the upper face of the membrane 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 fast welding of the joints. The underside of the membrane 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.

APPLICATION FIELDS

The long lasting strength, elasticity and stability at high and low temperatures make **MODO POLYESTER** membrane ideal for use in non particularly cold climates, as a single or multi-layer waterproofing systems for new building work or for refurbishment:

- **On all sloped surfaces:** on flat, sloped and curved surfaces.
- **On different types of substrates:** site-cast or prefabricated concrete substrates, on timber roofing, on the most common thermal insulation used in the building trade.
- **For the most varied uses:** terraces, flat and sloping roofs, dielectric coatings and walls in contact with the ground.

The high dimensional stability of **MODO V** make the membrane suitable for combining with elastomeric, elastoplastomeric and plastomeric membranes reinforced with “non woven” polyester fabric to form double layer waterproofing systems.

INTENDED USE OF “CE” MARKING SPECIFIED ACCORDING TO THE AISPEC-MBP GUIDLINES

EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

• Under layer or intermediate layer in multi-layer systems without permanent heavy surface protection
- MODO POLYESTER 3 mm
- MODO POLYESTER 4 mm
- MODO/V 2 mm
- MODO/V 3 mm
- MODO/V 4 mm

• Upper layer in multi-layer systems without permanent heavy surface protection
- MODO POLYESTER 4 mm

• Under heavy protection in multi-layer systems
- MODO POLYESTER 3 mm
- MODO POLYESTER 4 mm

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

• Membranes for foundations
- MODO POLYESTER 3 mm
- MODO POLYESTER 4 mm

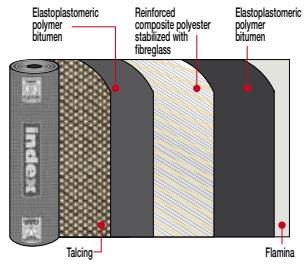
TECHNICAL CHARACTERISTICS

	Standard	T	MODO POLYESTER		MODO/V		
Reinforcement			"Non-woven" composite polyester stabilized with fibreglass		Fibreglass		
Thickness	EN 1849-1	±0,2	3 mm	4 mm	2 mm	3 mm	4 mm
Roll size	EN 1848-1	≥	1×10 m	1×10 m	1×20 m	1×10 m	1×10 m
Watertightness • after ageing	EN 1928 – B EN 1926-1928	≥	60 kPa 60 kPa	60 kPa 60 kPa		60 kPa –	
Shear resistance L/T	EN 12317-1	-20%	350/250 N/50mm	350/250 N/50mm		–	
Maximum tensile force L/T	EN 12311-1	-20%	400/300 N 50 mm	400/300 N 50 mm		300/200 N 50 mm	
Elongation L/T	EN 12311-1	-15% V.A.	35/40%	35/40%		2/2%	
Resistance to impact	EN 12691 – A		700 mm	700 mm		–	
Resistance to static loading	EN 12730 - A		10 kg	10 kg		–	
Resistance to tearing (nail shank) L/T	EN 12310-1	-30%	140/140 N	140/140 N		70/70 N	
Dimensional stability L/T	EN 1107-1	≤	–	–0,25/+0,10%		–	
Flexibility to low temperature	EN 1109	≤	–5°C	–5°C		–5°C	
Flow resist. at high temp. • after ageing	EN 1110 EN 1296-1110	≥	100°C –	100°C 90°C		100°C –	
UV ageing	EN 1297		–	Test passed		E	
Reaction to fire Euroclass	EN 13501-1		E	E		E	
External fire performance	EN 13501-5		F roof	F roof		F roof	

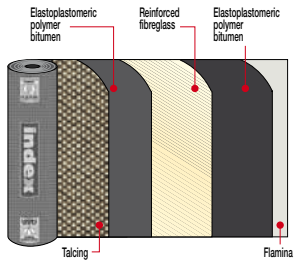
Compliant with EN 13707 in terms of the resistance factor to steam penetration for reinforced polymer-bitumen membranes, the value of μ = 20 000 may be considered, unless declared otherwise.

COMPOSITION OF THE MEMBRANE

MODO POLYESTER



MODO/V



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 very thin talc over the top surface with a special pattern, preventing accumulation or zones without talc. This new system allow a quick unroll and gives the surface a pleasant aspect, which enable to torch it faster if compared to the other coarser mineral finishes.

• 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 •

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Construction Systems and Products

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TOTAL QUALITY index UNI EN ISO 9001

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