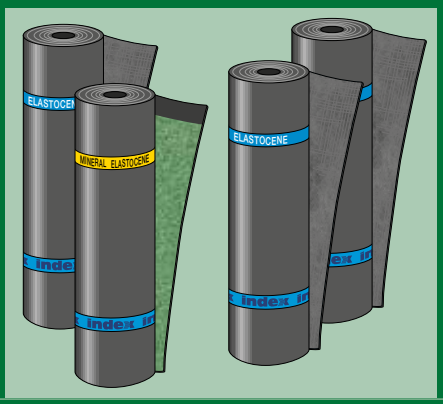


ELASTOCENE POLYESTER
MINERAL ELASTOCENE POLYESTER
ELASTOCENE/V
ELASTOCENE POLYESTER-GL

ELASTOPLASTOMERIC DISTILLED POLYMER-BITUMEN WATERPROOFING MEMBRANES, BASED ON DISTILLED BITUMEN, ELASTOMERS AND POLYOLEFIN COPOLYMERS

GRANTS *LEED* CREDITS

CATEGORY	CHARACTERISTICS		ENVIRONRMENTAL							METHOD OF USE				
ELASTOMERIC POLYOLEFIN CO-POLYMERS	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	COLD ADHESIVE BONDING	APPLICATION WITH MOLTEN BLOWN BITUMEN

* For waterproofing membranes with TEXFLAMINA underface finish only

DESCRIPTION

ELASTOCENE membranes are made up of a new and special mixture of distilled bitumen for industrial use, elastomers and polyolefin copolymers. They are flexible in cold weather conditions and heat resistant, remaining elastic in time. These membranes have high adhesion properties and optimal flexibility with respect to conventional bituminous membranes, allowing you to obtain stronger and longer lasting joints. The **/V** type membranes are reinforced with fibreglass mat, have an extremely high dimensional stability and are rot proof. The **POLYESTER** type is reinforced with composite "non-woven" polyester fabric and fibreglass for improved resistance and elasticity. The material is 2 or 3 times more stable in hot weather conditions than membranes reinforced with a normal non-woven polyester fabric. The **POLYESTER-GL** type is reinforced with a high grammage composite. The underside of **ELASTOCENE** membranes is coated with Flamina, which melts when torched, while the top face is finished in Texflamina, the new multi-purpose INDEX finish. The top side of the **MINERAL** version however is protected with slate granules, which are bonded and hot pressed except for a lateral overlapping strip without slate, protected with a band of Flamina film, which melts when torched to weld the joint.

ADVANTAGES

ELASTOCENE is a new range of Index membranes designed to solve the problems of both the installer and the retailer:

- strong and elastic;
- can be used all year round;
- not prone to imprints in summer and the rolls do not stick together;
- easy to unroll in winter;
- clean, sand and talc free types;
- the polyester reinforced types do not "shrink" in hot weather conditions thanks to the composite reinforcement;
- age-resistant and long lasting flexibility. After 28 days at 80°C, the flexibility is still 0°C.
- can be painted immediately and paints are longer lasting; in this case, to prevent detachment and/or non-uniformity of the paint applied in the central part of the membrane over time, where the Texflamina remains intact, and the paint applied close to the overlaps, where the Texflamina is affected by the reflection of the flame, care must be taken to limit the extension of the reflection, possibly using a welding torch with a flat nozzle that can be placed under the overlap;
- the joints are stronger compared to normal bitumen membranes and are more resistant in time. After 28 days at 80°C the peel strength on the joint is still 50 N/5 cm.

APPLICATION FIELDS

The different versions of **ELASTOCENE** offer the possibility of solving the various problems of waterproofing in the building industry.

ELASTOCENE membranes can be applied in single layer or in several layers to ensure sound and long lasting waterproof surfaces.

ELASTOCENE POLYESTER-GL membrane can be applied in single layers.

With respect to conventional talc or sand finished membranes, the membranes with the top face in Texflamina, used as vapour barriers, feature the advantage of strong and durable bonding of adhesives for insulation panels laid on them such as: oxidised melted bitumen, cold laid bitumen glues and polyurethane adhesives. A double layer, with at least one of the layers reinforced with polyester-glass composite is the minimum requirement when laying insulation panels. Under floors or for underground surfaces, the **POLYESTER-GL** type membrane is recommended with a higher resistance to punctures. The last layer of a visible surface on heat insulation will be **MINERAL** type.

The **MINERAL** version is also available in the **MINERAL ELASTOCENE FIRESTOP POLYESTER** version containing harmless inorganic flame retardant additives distributed throughout the thickness of the membrane tested on sintered polystyrene foam, in compliance with the Standard on reactions to external fire of Scandinavian countries, **Nord Test Method-Resistance to fire spread according to SS 02 48 24 - NT FIRE 006 recognised as the European method UNI ENV 1187/2**. Furthermore, they have been classified as $B_{roof}(t2)$, in compliance with **UNI EN 13501-5**, on both combustible and incombustible substrates. The technical data can be found in the specific technical data sheet.

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
- ELASTOCENE POLYESTER
- ELASTOCENE/V
- ELASTOCENE POLYESTER-GL

• Upper layer in multi-layer systems without permanent heavy surface protection
- MINERAL ELASTOCENE POLYESTER

• Single-layer under heavy protection
- ELASTOCENE POLYESTER-GL

• Under heavy protection in multi-layer systems
- ELASTOCENE POLYESTER
- ELASTOCENE POLYESTER-GL

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

• Membranes for foundations
- ELASTOCENE POLYESTER
- ELASTOCENE POLYESTER-GL

The membranes reinforced with fibreglass mat should be used with the polyester reinforced membranes or in single layers for vapour barriers. The long lasting characteristics of strength, elasticity and dimensional stability both in high and low temperatures makes it possible to use **ELASTOCENE** membranes in the building industry as single or multi-layer waterproofing both for new constructions and for betterment of various typologies:

- **On all inclined surfaces**: both flat, vertical and on curved surfaces;
- **On different types of surface**: cast or prefabricated cement surfaces, on metal or wood roofing, on the most widely used heat insulation used in the building industry;
- **For the most varied uses**: terraces, flat and sloping roofs, foundations, and covered concrete car parks.

TECHNICAL CHARACTERISTICS

	Standard	T	ELASTOCENE POLYESTER		MINERAL ELASTOCENE POLYESTER		ELASTOCENE/V		ELASTOCENE POLYESTER-GL
Reinforcement			"Non-woven" composite polyester stabilized with fibreglass		"Non-woven" composite polyester stabilized with fibreglass		Fibreglass		"Non-woven" composite polyester stabilized with fibreglass
Thickness	EN 1849-1	±0,2	3 mm	4 mm	–	–	–	–	4 mm
Mass per unit area	EN 1849-1	±10%	–	–	–	–	3.0 kg/m²	4.0 kg/m²	–
Mass per unit area MINERAL	EN 1849-1	±15%	–	–	4.0 kg/m²	4.5 kg/m²	–	–	–
Roll size	EN 1848-1	–1%	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m
Watertightness	EN 1928 – B	≥	60 kPa	60 kPa	60 kPa		60 kPa		60 kPa
• after ageing	EN 1926-1928	≥	60 kPa	60 kPa	–		–		60 kPa
Peel resistance L/T	EN 12316-1	–20 N	–	–	–		–		100 N/50 mm
Shear resistance L/T	EN 12317-1	–20%	350/250 N/50 mm	350/250 N/50 mm	NPD		NPD		600/500 N/50 mm
Maximum tensile force L/T	EN 12311-1	–20%	400/300 N/50 mm	400/300 N/50 mm	400/300 N/50 mm		300/200 N/50 mm		800/700 N/50 mm
Elongation L/T	EN 12311-1	–15% V.A.	35/40%	35/40%	35/40%		2/2%		40/40%
Resistance to impact	EN 12691 – A		NPD	1000 mm	–		–		1750 mm
Resistance to static loading	EN 12730 - A		NPD	10 kg	–		–		20 kg
Resistance to tearing (nail shank) L/T	EN 12310-1	–30%	150/150 N	150/150 N	150/150 N		70/70 N		200/200 N
Dimensional stability L/T	EN 1107-1	≤	–	–0.25/+0.10%	–0.25/+0.10%		–		–0.25/+0.10%
Flexibility to low temp.	EN 1109	≤	–20°C	–20°C	–20°C		–20°C		–20°C
• after ageing	EN 1296-1109	+15°C	–	–	–15°C		–		–15°C
Flow resistance at high temperature	EN 1110	≥	100°C	100°C	100°C		100°C		100°C
Reaction to fire Euroclass	EN 13501-1		E	E	E		E		E
External fire performance	EN 13501-5		F roof	F roof	F roof		F roof		F roof
Thermal specifications									
Thermal conductivity			0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK
Heat capacity			3.90 KJ/K	5.20 KJ/K	4.80 KJ/K	5.40 KJ/K	3.90 KJ/K	5.20 KJ/K	5.20 KJ/K

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.

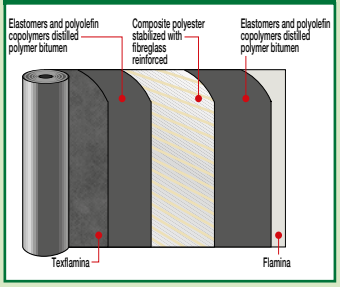
The colour of slated membranes may vary according to the storage time. The problem is resolved within 2-3 months of application and the shades become uniform, returning to their original colour. This is a normal phenomenon for this type of membranes and cannot be a reason for complaints. The same is valid for the maintenance of colour and the different shades that can be found on areas of the roof that are more or less exposed to

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.

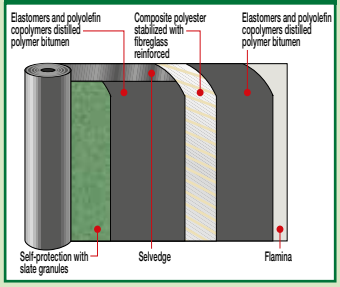
The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

COMPOSITION OF THE MEMBRANE

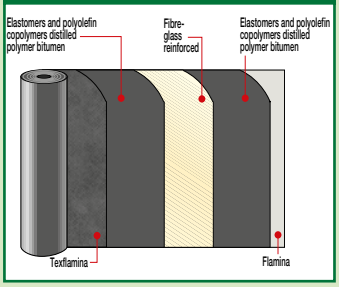
ELASTOCENE POLYESTER



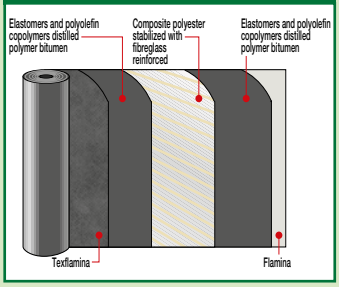
MINERAL ELASTOCENE POLYESTER



ELASTOCENE/V



ELASTOCENE POLYESTER-GL



PRODUCT FINISHING

"FLAMINA" PE FOIL. Plastic protection film helping prevent coils from sticking to the roll. As it withdraws under the action of the flame right during its installation, it signals the best melting point in order to correctly glue the membrane to the brackets and rises. When not heated, it can be used as a sliding layer.

"TEXFLAMINA" PP NON-WOVEN. Multifunction, protection finishing material made up of a non-woven flame-melting synthetic-fibre fabric, coupled to the upper face of the membrane. It prevents coils from sticking to the roll, improves foot traffic resistance during installation, enhances the adhesion of paints, glues and extends their life.

SELF-PROTECTION WITH SLATE GRANULES. On the visible face of the membrane, a protective coating made up of slate granules of various colours is hot bonded. This mineral shield protects the membrane from ageing caused by UV rays.

• 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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