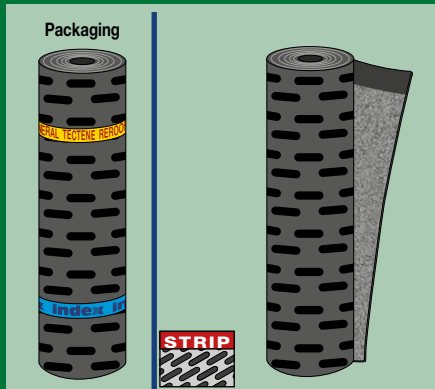


MINERAL TECTENE REROOF STRIP HE POLYESTER

ELASTOPLASTOMERIC POLYMER BITUMEN HEAT-ADHESIVE WATERPROOFING MEMBRANE WITH A DISTILLED BITUMEN, PLASTOMER AND ELASTOMER BASE FOR SEMI-ADHESION REROOFING. LOWER FACE COATED WITH HEAT-ADHESIVE STRIPS



GRANTS **LEED** CREDITS

CATEGORY	CHARACTERISTICS				ENVIRONMENTAL						METHOD OF USE	
HE S SPECIAL ELASTOMERIC FOR SPECIFIC USES	WATERPROOF	SUPER-ADHESIVE	REACTION TO FIRE	ECO GREEN	ASBESTOS FREE	TAR FREE	CHLORINE FREE	RECYCLABLE	NON DANGEROUS WASTE	EXHAUSTED OIL FREE	TORCH APPLICATION	NAILING

1 PROBLEM

ROOF Flat Slope

SUPPORT Concrete Wood Previous membrane Thermal insulation

HOW TO AVOID BUBBLES AND SPREADING SPLITS WHEN REROOFING AN OLD DAMP WATERPROOF COVERING WITHOUT HAVING TO LAY PERFORATED SCREENS OR OTHER SHEETS FOR SEMI-ADHESION

Old bitumen coverings may retain damp and undergo dimensional variations near splits that cause them to become unsettled. In such cases, the new roof covering has to be spot-bonded, in semi-adhesion, to eliminate water vapour and to avoid bubbles, but also to prevent splits from spreading from the old waterproof covering to the new one. Torch spot-bonding of normal membranes does not guarantee uniform distribution of the connection and does not determine a sufficient micro air space to diffuse the vapour, plus there is the risk of bonding excessively and favouring bubbles or of bonding too little and allowing the wind to blow away the new waterproof covering. To resolve the problem, you have to use additional sheets, perforated screens or special sheets, which are more effective and secure, with the lower face embossed or with adhesive strips.

2 SOLUTION

TECTENE REROOF STRIP

By using the **TECTENE REROOF STRIP EP** membrane there is no need to add any other special sheets, because the lower face is coated with strips of a special adhesive elastomeric compound that is activated by heat, which determines a strong, safe and long-lasting semi-adhesion bond. The contact surface is about 40%, much higher than that of perforated screens, which do not exceed 20%, thus guaranteeing a much higher resistance to wind in view of the larger adhesion surface and to the superior level of adhesion. The resistance to wind of the heat-adhesive strips has been tested pursuant to test TR 005 envisaged in the guidelines for mechanically secured systems ETAG 006 on polyurethane foam insulation, with faces coated with a membrane reinforced with fibreglass felt, nailed to the support, exceeding the maximum resistance of 10 kPa envisaged by the aforesaid test. The elastic bond and the distance between the strips also ensure the efficient distribution of mechanical strain and prevent the splits in the old covering from spreading. The strips protrude from the body of the membrane and together with the remaining 60 % of the surface that is sanded and not glued, they determine a micro air space to enable the diffusion of water vapour and to prevent the formation of bubbles. The **MINERAL**

TECTENE REROOF STRIP HE POLIESTERE membranes are made up of distilled bitumen selected for industrial use with a high added content of elastomeric and plastomeric polymers such to obtain a "phase inversion" amalgam. The continuous phase of this amalgam consists of the polymer in which the bitumen is dispersed, where the characteristics are determined by the polymer matrix and not by the bitumen, even if the latter is the majority ingredient. The performance of the bitumen is therefore increased, and durability and resistance to low and high temperatures are improved, whilst the already excellent adhesion and waterproofing properties of the bitumen remain unchanged. The elastomeric mix, in the family of polymer-modified bitumen, makes its mark not only in view of the high level of elastic return but also thanks to its high level of cohesion, meaning that the membrane's resistance to opening of the joints (peel test) is three to five times higher than that obtainable with a plastomeric or elastoplastomeric polymer-bitumen membrane; this is an essential feature to ensure the sealing of the joints over time. The membranes have a composite reinforcement in non-woven rot-proof polyester fabric stabilised with

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

EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

- Exposed single-layer
- MINERAL TECTENE REROOF STRIP HE POLIEST.

fibreglass, which gives them good dimensional stability combined with high mechanical resistance and elasticity. **MINERAL TECTENE REROOF STRIP HE POLIESTERE** has the upper face self-protected with slate granules, glued and pressed hot, with the exception of a side overlap strip without slate and protected with Flamina hot-melt film that is torch bonded to seal the overlap joint. The lower sand-treated face has adhesive elastomeric strips and is protected with the Flamina film, which is to be melted with the torch during laying to activate the adhesive.

ADVANTAGES

- The sheet to be used for semi-independence is supplied with the waterproof membrane.
- Thickness of heat-adhesive strips determine a thin interspace for vapour diffusion.
- The elastomeric mix confers strong resistance to peeling of the joints.
- The heat-adhesive elastomeric strips provide greater adhesion.

APPLICATION FIELDS

MINERAL TECTENE REROOF STRIP HE POLYESTER is designed for use on single-layer refurbishments of aged bituminous coverings that may still retain damp and/or that may transmit splits. **MINERAL TECTENE REROOF STRIP HE POLIESTERE** can be used on flat and pitched roofs, up to a pitch of 15%, otherwise for steeper pitches, the adhesive is to be integrated with a mechanical fixing at the ends of the sheets. The membranes are designed for use on coverings that remain visible and, in particularly windy areas, the adhesive is to be integrated with perimeter mechanical fixing.

TECHNICAL CHARACTERISTICS

	Standard	T	MINERAL TECTENE REROOF STRIP HE POLYESTER		
Reinforcement			"Non-woven" composite polyester stabilized with fibreglass		
Weight MINERAL	EN 1849-1	±15%	4.0 kg/m ²	4.5 kg/m ²	5.0 kg/m ²
Roll size	EN 1848-1	-1%	1x10 m	1x10 m	1x10 m
Watertightness	EN 1928 - B	≥	60 kPa		
Shear resistance L/T	EN 12317-1	-20%	600/400 N/50mm		
Maximum tensile force L/T	EN 12311-1	-20%	700/500 N 50 mm		
Elongation L/T	EN 12311-1	-15% V.A.	40/45%		
Resistance to impact	EN 12691 - A		1250 mm		
Resistance to static loading	EN 12730 - A		15 kg		
Resistance to tearing (nail shank) L/T	EN 12310-1	-30%	250/250 N		
Dimensional stability L/T	EN 1107-1	≤	-0.25/+0.10		
Flexibility to low temperature	EN 1109	≤	-25°C		
Flow resistance at high temperature	EN 1110	≥	100°C		
Reaction to fire Euroclass	EN 13501-1		E		
External fire performance	EN 13501-5		F roof		

Technical specification for resistance to wind (EN 16002)

with polyurethane	EN 16002		$\Delta_{adm} = 10000 \text{ N/m}^2$		
with concrete	EN 16002		$\Delta_{adm} = 10000 \text{ N/m}^2$		
with bituminous membranes	EN 16002		$\Delta_{adm} = 10000 \text{ N/m}^2$		

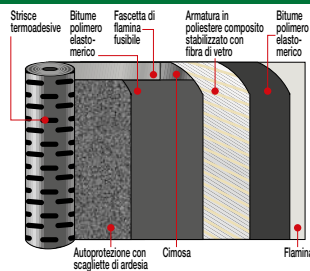
Thermal specifications

Thermal conductivity			0.2 W/mK	0.2 W/mK	0.2 W/mK
Heat capacity			4.80 KJ/K	5.40 KJ/K	6.00 KJ/K

Compliant with EN 13707 in terms of the resistance factor to steam penetration for reinforced polymer-bitumen membranes, the value of $\mu = 20000$ may be considered, unless declared otherwise.

COMPOSITION OF THE MEMBRANE

MINERAL TECTENE REROOF STRIP HE POLYESTER



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.



FLAMINA/SAND ON TOP OF HEAT ADHESIVE STRIPS



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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Construction Systems and Products

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