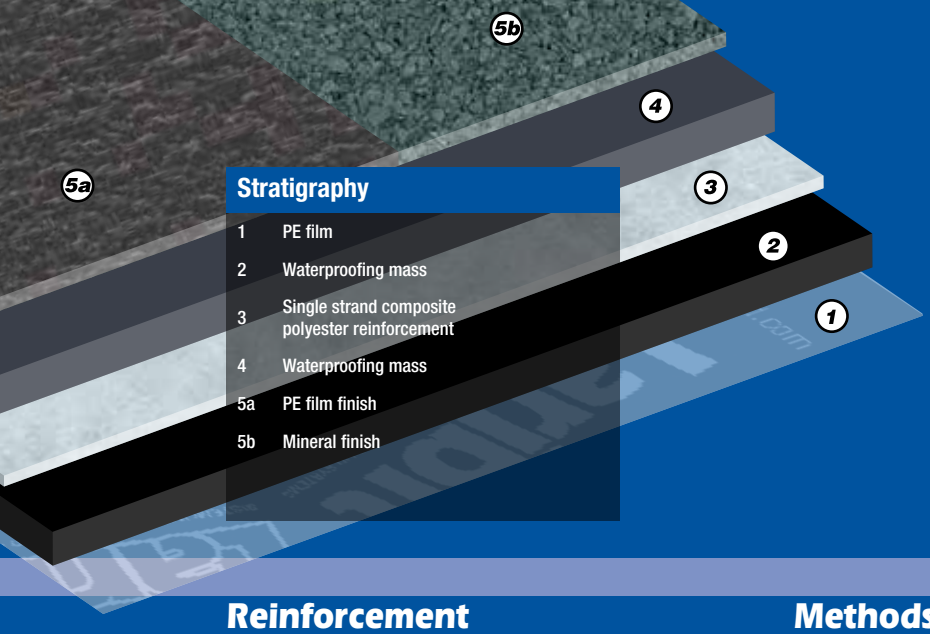
Laribit®
SISTEMI IMPERMEABILIZZANTI
WATERPROOFING SYSTEMS

TP 10

light weight membranes



Characteristics

Pre-fabricated waterproofing membrane made of thermoplastic stereo specific metallocene copolymer polyolefin's (CPT) & special distilled bitumen's, with elevated characteristics of resistance to ageing and phase inversion point.
The use of these raw materials and the particular processing allow the production of light waterproofing compounds, with an excellent weight to thickness ratio.
The elements which compose the waterproofing compound, mutually integrating themselves, exalt the very good qualities of lightness and adhesion of the membranes of the TP range.

Reinforcement

The membranes of the TP range are reinforced with a single strand woven non woven composite polyester and stabilized with fiber glass filaments.
This reinforcement gives the membrane high mechanical characteristics and excellent dimensional stability.

Finishing

The membranes of the TP range have a PE film upper face finish, this helps prevent the roll from sticking to itself and has very good resistance to foot traffic during application.
The PA versions are self-protected on the upper face with mineral slates which reduce superficial heat absorption improving the durability of the membrane.
The application face of the membrane is finished with a polyethylene burn-off film. The lower face is also embossed to improve the adhesion of the polyethylene burn-off film and to increase the torched contact surface itself.

Methods of application

- The membrane is usually applied by heating the bituminous blend using a gas burner or hot air guns in special cases.
- Always use the individual protection devices specified by law.
- Never use application by heating on heat-sensitive supports or insulation.
- Conduct regular maintenance on the roof in order to remove detritus, mud, grass, etc., and to keep the operation of the waterproofing system and accessories (drains, TV antennas, air-conditioning systems, etc.) under control.
- Whenever there is reason to believe that the element to be waterproofed has traces of residual humidity (e.g. during renovations of existing roof coverings, applications after abundant rainfall), vents should be positioned in such way as to permit its elimination.

For more information and instructions, we recommend consulting LARIBIT application manual, remembering that our Technical Support Service is always at your disposal to solve particular problems and provide the assistance necessary in using our waterproofing membranes to best advantage.

Technical data sheet TP

Fields of use

CE

EN13707 Continuous roofs (Certificate n° 0958-CPR-2045/1)

	N° LAYERS			METHOD OF APPLICATION						TYPE OF APPLICATION			TYPE				
	Single Layer	Double Layer	Multilayer	Torch	Hot Air	Mixed (Torch / Air)	Cold Bond Glue	Mechanical Fixing	Thermo Adhesive / Self Adhesive	Fully Bonded	Partially Bonded	Loose Laid	Complimentary Layer	Top Layer	Heavy Protection	Anti-root	Other Uses
TP P 4 MM		•	•	•				•		•			•	•	•		
TP PA 4 MM ON MINERAL		•	•	•						•			•				

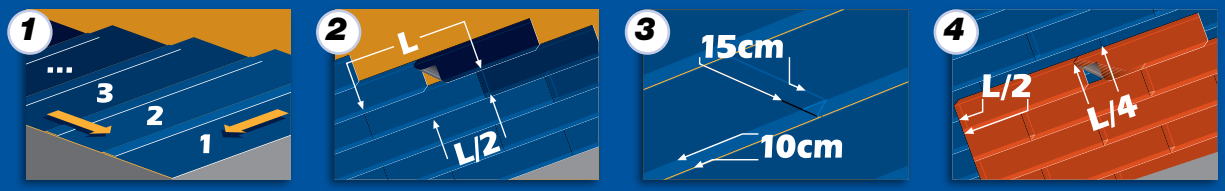
EN13859-1 Under Roof Tile

TP PA 4 MM ON MINERAL	•	•	•	•						•			•				

The waterproofing membrane based on distilled bitumen and polymers, as shown in this data sheet does not require the issue of a MSDS, because it does not contain dangerous substances. The information data sheet for the proper use of products is available.

Application

- On cementitious surfaces and similar apply, by roller or airless, bituminous primer, approx. consumption 300/400 g/m².
- Apply by torch application a 25 cm strip of membrane reinforced with polyester along all vertical up stands.
- To have all overlaps with the slope, position the membrane always starting from the lowest point. (Draw. N.1)
- Position the membrane sheets staggered, avoiding to create any overlaps against the slope and the drains. (Draw. N.2)
- Cut the corners of membrane sheet which will be laid under the next sheet at a 45° angle (10 x 10 cm). (Draw. N.3)
- The joints, both side and head, must be respectively overlapped by 10 & 15 cm. (Draw. N.3)
- The second layer of membrane will be applied astride and over the first one, always in the same direction, and approx. 1/4 of its length from the previous sheet. (Draw. N.4)
- The bituminous membrane will be applied with a propane gas torch to the substrate. It is necessary to heat the entire surface, except for the side & head laps, making sure that the compound forms a liquid mass in front of the roll to assure that it saturates any superficial porosity.
- The side laps (10 cm) and head laps (15 cm) will be heat welded with an appropriate torch; during this stage the overlaps should be pressed by using a roller (15 kg) from which a bead of compound should flow and therefore avoiding to have to iron the overlaps.
- Apply the vertical membrane sheet having the same characteristics of the waterproofing membrane and dimensions equal to the width of the roll, making sure that it overlaps the horizontal one by at least 10 cm, heating it with a gas torch and squeezing it with a trowel until a bead of compound appears from underneath.
- The height of the verticals must be equivalent or superior to the finished surface by at least 15 cm.



TP 10

Recommendations

- The rolls are to be stored in an upright position, indoors in a dry and ventilated area, away from heat sources. Absolutely avoid the stacking of rolls and pallets for storage or transport to avoid possible deformations which may compromise a perfect installation. It is recommended to store the product at temperatures above 0°C.
- The application surface must be smooth, dry, and clean.
- The application surface must be previously treated with the appropriate bituminous primer.
- **The application surface must not have any depressions to avoid the risk of ponding water, the slope must be at least 1.5% on concrete decks and 3% for steel or wooden ones, this to guarantee a proper run off of rainwater.**
- In situations of application on vertical surfaces superior to 2 meters or on very sloped substrates, apply suitable mechanical fixings to the head laps, after which they will be sealed when torching the head laps.
- The product must be applied at room temperatures of above + 5°C.
- Application must be suspended during inclement weather (excessive humidity, rain, etc.).
- Over membranes without mineral self-protection or dual reinforcement, used as a top layer (cap sheet), depending on the type of construction, is recommended to use heavy protection (floating pavements, stone, etc.), to improve and extend the performance and life expectancy.
- The pallets supplied are suited only for normal warehouse movement and not for raising heavy loads to height.
- We recommend making correct and regular warehouse rotation.
- For information concerning storage and application of Laribit membranes, please refer to the “Installation manual”.

Technical data

Technical Characteristics	Measure Units	Reference Norm	P	PA	Tolerance
Type of reinforcement			Single strand polyester		
Upper face finish			PE film	Mineral *	
Lower face finish			PE film		
Watertightness	kPa	EN 1928	60		
Length	m	EN 1848-1	10 -1%		
Width	m	EN 1848-1	1 -1%		
Thickness	mm	EN 1849-1	4	4 on mineral	±5%
Mass	kg/m²	EN 1849-1	3,9	4,3	±10%
Cold flexibility	°C	EN 1109	-10		
Flow resistance	°C	EN 1110	120		
Shear resistance L / T	N / 5 cm	EN 12317	500/300		-20%
Tensile strength L / T	N / 5 cm	EN 12311-1	600/400		-20%
Elongation at break L / T	%	EN 12311-1	35/35		-15
Tearing resistance L / T	N	EN 12310-1	140/140		-30%
Static puncture resistance	kg	EN 12730	15		
Dynamic puncture resistance	mm	EN 12691	900		
Dimensional stability	%	EN 1107-1	-0,3		
Loss mineral	%	EN 12039		30	
Fire resistance		EN 13501-5	F ROOF		
Fire reaction		EN 13501-1	F		

* Mineral self-protected products may undergo color tone variations due to the time and length of storage. Exposure to atmospheric conditions, after application, will tend to uniform the color after a few months. The change in color tone cannot therefore be contested and / or complained of as it is a natural phenomenon that the slate manufacturer himself cannot guarantee.

Sizes & packing

	P 4 mm	PA 4 mm
Rolls size [m]	10x1	10x1
Rolls per pallet	24	23
Square meters per pallet [m²]	240	230

Sizes & packing may vary depending on the type of transportation. The technical data given is based on average values obtained during production. We reserve the rights to change or modify the nominal values without prior notice or advice. The information contained in this data sheet are based on our experience. We cannot take any responsibility for a possible incorrect use of the products. The customer has to choose under their own responsibility a product fit for the intended use.

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