

Stratigraphy

- 1 P.E. film
- 2 Waterproofing mass
- 3 Single strand composite polyester reinforcement
- 4 Waterproofing mass
- 5 Sand or talc finish

Characteristics

MT VIADUCTS is a prefabricated membrane made of bitumen distillate modified with elastomeric and plastomeric polymers, and reinforced with spunbond non-woven polyester filaments which, given its heavy weight, provides excellent resistance to mechanical stress.

The waterproofing compound, obtained through the complete homogenization of bitumen distillate with elastomeric and plastomeric polymers, is added with special additives and offers top features:

- resistance to temperature change
- resistance to chemical corrosion (acids and salts)
- waterproof seal
- good adhesion when heated to all supports.

Reinforcement

Composed of non-woven spunbond polyester filaments offers:

- high mechanical characteristics
- imputrescibility, elasticity and flexibility
- good isotropy
- resistance to attack by chemical and bacterial agents.

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 these systems on heat-sensitive supports or insulation.
- Scrupulously respect the recommendations and warnings for use provided on the product's technical data sheet.
- The waterproofing system and the products recommended can be modified as required by the roof's constructive type and size (please consult our Technical Assistance Service).
- 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 technical documentation, 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.

Finishing

The upperside of MT VIADUCTS is finished with a special inorganic and extremely fine release material which is uniformly spread and calibrated in order to prevent the roll from sticking to itself providing anti-slip features for applications on sloping surfaces.

The underside is protected by a burn-off printed and embossed polyethylene film that allows you to check anytime the ideal melting point of the waterproofing compound and vapor diffusion thus preventing the formation of blisters whenever the membrane is laid with semi-adherence or independently.

Fields of use



EN13707 Continuous roofs (Certificate n° 0958-CPD-DK029)

	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
MT VIADUCTS P 4 MM		•	•	•						•			•		•		
MT VIADUCTS P 5 MM		•	•	•						•			•		•		

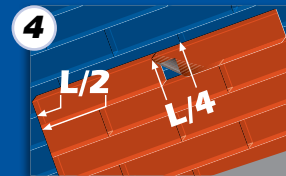
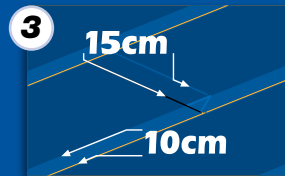
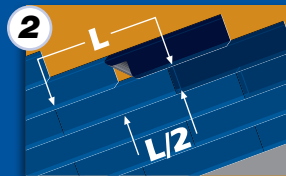
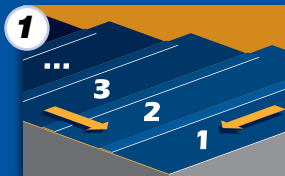
EN14695 Viaducts (Certificate n° 0958-CPD-DK070/1)

MT VIADUCTS P 4 MM		•	•	•						•			•		•		
MT VIADUCTS P 5 MM		•	•	•						•			•		•		

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 200/400 gr/m².
- 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.
- The height of the verticals must be equivalent or superior to the finished surface by at least 15 cm.



MT Viaducts

Recommendations

- Rolls of product must be stored upright in suitable areas (roofed and ventilated) far from sources of heat, and must never be stacked one on top of another in order to prevent deformation that may compromise laying. Store the product at temperatures higher than 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 always be even and smooth and with sufficient slope (min. 1.5 %) to prevent ponding water.
- The product must be applied at room temperatures of above + 5°C.
- Application must be suspended during inclement weather (excessive humidity, rain, etc.).
- Providing a light level of protection with acrylic paint or aluminous is highly recommended in order to increase the performance and duration of the roof covering for products not self-protected with natural slate or reinforced on both sides that are used as finishing layers. In such case, it is well worth waiting for the uniform oxidation of the membrane's top level (3-6 months depending on exposure and season) before proceeding to application.
- Whenever bituminous membranes protected with non-woven PPL filaments are used, the bituminous waterproof roof covering can be painted immediately after it has been laid.
- 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.

Technical data

Technical Characteristics	Measure Units	Reference Norm	P		Tolerance
Type of reinforcement			Single strand polyester		
Upper face finish			Sand or talc		
Lower face finish			P.E. film		
Length	m	EN 1848-1	10 -1%		
Width	m	EN 1848-1	1 -1%		
Thickness	mm	EN 1849-1	4	5	±5%
Cold flexibility	°C	EN 1109	-10		
Flow resistance	°C	EN 1110	120		
Tensile strength L / T	N / 5 cm	EN 12311-1	1200/1000		-20%
Elongation at break L / T	%	EN 12311-1	40/40		-15
Tearing resistance L / T	N	EN 12310-1	200/200		-30%
Static puncture resistance	kg	EN 12730	25		
Dynamic puncture resistance	mm	EN 12691	1750		
Fire resistance		EN 13501-5	F ROOF		
Fire reaction		EN 13501-1	F		
Dimensional stability	%	EN 1107-1	0,5		
Watertightness	kPa	EN 1928	60		
Bond strenght	N/mm ²	EN 13596	0,49		≥
Shear strenght	N/mm ²	EN 13653	0,23		≥
Compatibility by heat conditioning	%	EN 14691	177		≥
Crack Bridging Ability	°C	EN 14224	-10		≥
Resistance to dynamic water pressure		EN 14694	pass		
Resistance to compaction of an asphalt layer		EN 14692	pass		
Behaviour of bitumen sheets during application of mastic asphalt	%, mm, %	EN 14693	NPD		

Sizes & packing

	P 4 mm	P 5 mm
Rolls size [m]	10x1	10x1
Rolls per pallet	24	20
Square meters per pallet [m ²]	240	200

The technical data given is based on average values obtained during production. Laribit reserves the rights to change or modify the nominal values without prior notice or advice.

Laribit®

Laribit S.r.l. - Via Orazio Andreoli 7
37059 Santa Maria di Zevio (VR) Italy

Tel. +39 045 8775559 www.laribit.com
Fax +39 045 8751474 info@laribit.com

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