



Stratigraphy

- 1 Polypropylene mat
- 2 Waterproofing mass
- 3 Woven non woven single strand composite polyester reinforcement of heavy grammage
- 4 Waterproofing mass
- 5 Fiberglass reinforcement
- 6 Talc finish

Description

Prefabricated modified polymer bitumen membrane composed of polyolefin thermoplastic stereospecific polymers with high molecular weight and special distilled bitumens, with excellent characteristics of resistance to ageing and phase inversion (type APP). These built in elements, integrating themselves, enhance the excellent qualities of flexibility, lightness, adhesion, resistance to ageing and to UV rays of the LARIX P+V membrane. The dual reinforcement with a woven non woven single strand polyester and rot proof fiber glass mat, confer to the product high mechanical characteristics and excellent dimensional stability. The fiber glass is positioned in proximity of the upper face of the membrane guaranteeing a longer durability. The LARIX P+V membrane is finished on the upper face with a special talc. On the application face, the membrane is finished with a woven non woven polypropylene mat, suitable for both application with adhesive cold bond glues, as well as on LARIX THERMOADHESIVE.

FIRE RESISTANT VERSION

The FIRE RESISTANT version is manufactured with special inorganic non toxic fire retardant additives which confer to the product a fire resistance which conforms to the European directives in this field.

ANTI-ROOT VERSION

On request a LARIX P+V ANTI-ROOT version is available for green roof applications. The compound has a special chemical additive (PREVENTOL B2 BAYER) which provides the membrane with high resistance to root penetration, aggressive chemical agents such as fertilizers, weedkillers, etc. The anti root resistance of the product does not harm the health or life of the plants. The anti root additive does not wash out with water, and remain permanently active.

Areas of use

LARIX P+V is a product specifically studied to be applied with an adhesive cold bond glue, without however impeding the application by torch or hot air, guaranteeing excellent results of durability and watertightness of the roof.

Due to their characteristics, the membranes of the LARIX P+V series can be used with success in a wide range of waterproofing applications in civil and industrial works, for example flat, sloped & barrel roofs, terraces, retaining walls, etc.

The particular formulation of the membranes of the LARIX P+V series makes them compatible with all LARIBIT membranes, be they either APP or SBS based.

LARIX P+V can be used, based on the type of construction and project, either single layer or in multi-layer systems and especially in those applications where an exceptionally high dimensional stability is required.

In the applications with cold bond adhesives LARIX P+V is used as a single layer, prior to having applied suitable bituminous adhesive glue (PRATIKO ADESIVO) and, where necessary, bituminous mastic (PRATIKO MASTIC).

The application over heat sensitive substrates (ex. polystyrene insulation) can only be done prior to having applied a layer of LARIX THERMOADHESIVE V or P 2,5 mm membrane.

The adhesion to the first layer must be total.

Fields of use



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
LARIX P+V 3 MM	•	•	•	•		•		•		•			•	•			
LARIX P+V 4 MM	•	•	•	•		•	•	•		•	•		•	•	•		
LARIX P+V 5 MM	•	•	•	•		•	•	•		•	•		•	•	•		

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LARIX P+V 4 MM ANTI-ROOT	•	•	•	•		•		•		•			•	•	•	•	
LARIX P+V 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 with
 LARIX THERMOADHESIVE (draw. 1)**

- On cementitious substrates or similar apply by roller or airless the bituminous primer PRIMERTEC AD, approx. consumption 300 g/m².
- Apply by torch application in correspondence to the verticals, a strip of APP 4 mm membrane 25 cm wide.
- LARIX P+V must always be applied in the same direction and staggered for half of its width for about ¼ in the direction of the length, with the same procedure to that of the layer of LARIX THERMOADHESIVE.
- In order to have all the overlaps with the slope, position and apply the LARIX P+V membrane starting from the lowest point.
- Position the sheets alternating the overlapped areas, in order to not create joints against the slope towards the drains.
- Cut at 45° the angles of the membrane which will overlap with next sheet (10 x 10 cm).
- Weld to the LARIX THERMOADHESIVE membrane the LARIX P+V by means of a gas torch.



**Application with
 cold bond glue PRATIKO ADESIVO (draw. 2)**

- On cementitious substrates or similar apply by roller or airless the bituminous primer PRIMERTEC AD, approx. consumption 300 g/m².
- Apply by torch application in correspondence to the verticals, a strip of APP 4 mm membrane 25 cm wide.
- Position the sheets always starting from the lowest point, in order to have all the overlaps with the slope.
- When applying staggered, position the sheets alternating the overlapped areas, in order to not create joints against the slope towards the drains.
- Cut at 45° the angles of the membrane which will overlap with next sheet (10 x 10 cm).
- Fold or re-roll the membrane halfway, leaving the substrate exposed on which the cold bond glue will be applied.
- Pour the bituminous cold bond glue PRATIKO ADESIVO based on the absorption of the substrate (from 0.8 to 1.5 kg/m²). To avoid spillage along the pails, scrape the edge with the squeegee.
- Pour and uniformly spread in a homogeneous fashion the cold adhesive glue with a metal/rubber squeegee. Cover with the membrane the cold adhesive glue and fold back the other half.
- Carry out the same procedure as described above with the remaining area.



Common process between the systems

- Weld the side (10 cm) and head laps (15 cm) by torching with suitable overlap torch or hot air gun. During this operation, apply pressure to the overlap with a metal roller (15 kg); a bead of bitumen compound must come out from the overlap. For this it is not necessary to iron the overlaps (drawing 3).
- Apply the vertical membrane by overlapping it to the flat surface by at least 10 cm, torching it with a suitable safety burner or hot air gun, squeezing the overlaps with a heated trowel, this in order to have a bead of bitumen to round off the edges (drawing 4).
- The height of the verticals must be equal or superior to 15 cm of the superior finished layer of the roof.



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 rolls shall be kept in a warm or heated storage area during application, should the workability of the material deteriorate or become stiff and difficult to install during application, these should be returned to the heated storage area and substituted with new rolls. The rolls that are temporarily stored on the roof before application, shall be kept elevated by being left on their own pallets and shall be covered and protected from the weather.
- 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.**
- The product must be applied at room temperatures of above + 5°C.
- Application must be suspended during inclement weather (excessive humidity, rain, etc.).
- 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+V		Tolerance	
Type of reinforcement			Single strand polyester + Fiberglass			
Upper face finish			Talc			
Lower face finish			Polypropylene mat			
Length	m	EN 1848-1	10 -1%	7,27 -1%		
Width	m	EN 1848-1	1,1 -1%			
Thickness	mm	EN 1849-1	3	4	5	±5%
Artificial U.V. ageing		EN 1297	Pass			
Cold flexibility	°C	EN 1109	-20			
Cold flexibility after ageing	°C	EN 1296 - EN 1109	-15		+15°C	
Flow resistance	°C	EN 1110	140			
Flow resistance after ageing	°C	EN 1296 - EN 1110	140		-10°C	
Shear resistance L / T	N / 5 cm	EN 12317-1	600/500		-20%	
Tensile strength L / T	N / 5 cm	EN 12311-1	700/600		-20%	
Elongation at break L / T	%	EN 12311-1	45/45		-15	
Tearing resistance L / T	N	EN 12310-1	200/200		-30%	
Static puncture resistance	kg	EN 12730	15			
Dynamic puncture resistance	mm	EN 12691	1000			
Fire resistance		EN 13501-5	F ROOF			
Fire reaction		EN 13501-1	F			
Peel resistance of joints L / T	N / 5 cm	EN 12316-1	50/50		-20N	
Dimensional stability	%	EN 1107-1	-0,2			
Watertightness	kPa	EN 1928	60			
Watertightness after ageing	kPa	EN 1296 - EN 1928-B	60			
Vapour transmission	μ	EN 1931	20000			
FIRE RESISTANT VERSION						
External fire resistance		ENV 1187 EN 13501-5	B _{ROOF} (t2) *			
Fire reaction		EN 11925-2 EN 13501-1	E			
ANTI-ROOT VERSION						
Root resistance		EN 13948	Pass			

* External fire behavior classification valid exclusively for the membrane applied in the systems indicated as per certification available on request.

Sizes & packing

	P+V 3 mm	P+V 4 mm	P+V 5 mm
Rolls size [m]	10x1,1	10x1,1	7,27x1,1
Rolls per pallet	30	24	24
Square meters per pallet [m²]	330	264	192

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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