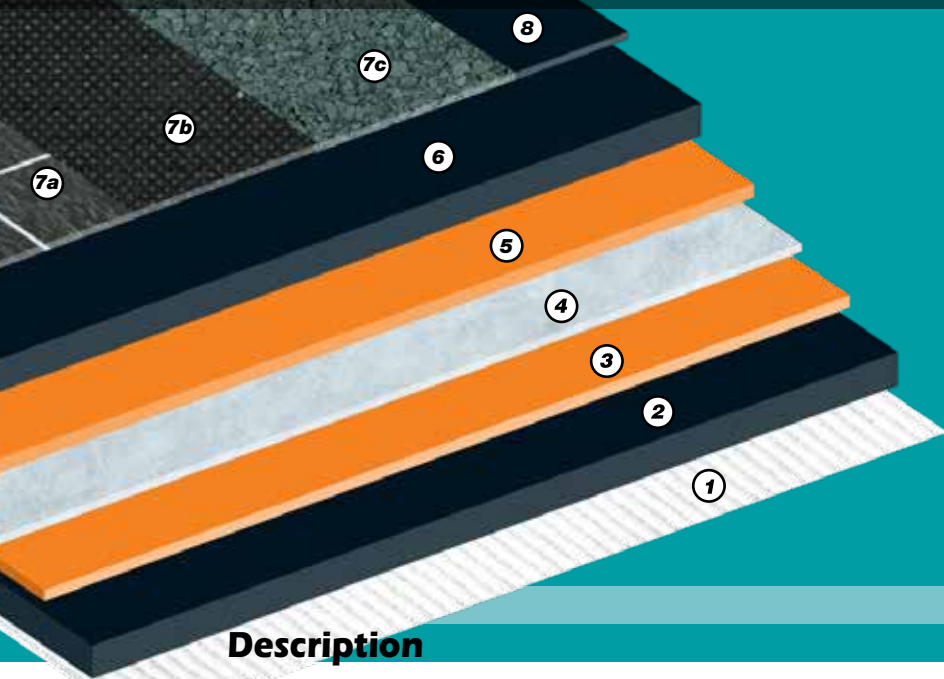




#### stratigraphy

- |    |                                                                            |
|----|----------------------------------------------------------------------------|
| 1  | Silicon release film                                                       |
| 2  | Self-adhesive waterproofing compound                                       |
| 3  | Compatibility compound                                                     |
| 4  | Continuous single strand composite woven non woven polyester reinforcement |
| 5  | Compatibility compound                                                     |
| 6  | Self-adhesive waterproofing compound                                       |
| 7a | Special printed film finish                                                |
| 7b | Polypropylene mat                                                          |
| 7c | Mineral finish                                                             |
| 8  | Special selvedge                                                           |

## Description

The bitumen-polymer LARIX SELF-ADHESIVE HP membranes are the arrival point of the latest generation of membranes denominated "composite".

These membranes are thus defined because thanks to a production technology developed in 1995, Laribit can produce materials with differentiated waterproofing mass, which allow the optimal utilization of each components properties, satisfying the different requirements.

LARIX SELF-ADHESIVE HP has a continuous single strand composite woven non woven polyester reinforcement with high mechanical characteristics.

LARIX SELF-ADHESIVE HP is an innovative self-adhesive with increased adhesiveness, enhanced resistance of the adhesion to aging and the cold (the product maintain good adhesion even at low temperatures).

The LARIX SELF-ADHESIVE HP membranes are capable of resolving specific application and functional requirements and present numerous and important advantages, such as ease of application with consequential savings on time and the possibility to apply the material on surfaces which are not suitable to open flame.

Therefore LARIX SELF-ADHESIVE HP is insuperable in the waterproofing of wood structures, insulation panels which are heat sensitive, panel decks and refurbishment of historical roofs.

Furthermore LARIX SELF-ADHESIVE HP can be used and allows the waterproofing of particular roof details (ex. bandaging of plastic tubes, etc.) and the possibility to also apply with the traditional application method of open flame or hot air, obtaining an exceptional level of adhesion.

LARIX SELF-ADHESIVE HP guarantees a perfect level of adhesion to the application surface, providing the system with an excellent level of wind uplift resistance and allowing accidental infiltrations to be traced.

## Main advantages

- The PA version upper face is self protected with mineral slates which reduce the absorption of heat on the membrane surface; **this version is equipped with a special 10 cm side selvedge that increases membrane adhesion and facilitates laying operations.**
- FASTER LAYING OPERATION, NO REMOVAL OF THE SELVEDGE IS NECESSARY.**
- IN THIS PRODUCT, THE LOWER FACE ADHESIVE COMPOUND ABSOLUTELY ADHERES TO THE SPECIAL SELVEDGE.**
- After applying the product directly on the substrate and removing the lower face silicon release film, it is possible to mechanically fasten it directly to the selvedge.**
- The P version upper face is self protected with a special film with a particular geometric serigraphy, specially designed to facilitate the applying operations. The P 2 mm version can have a polypropylene mat finish.

## 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 |
|              |              |            |                       |         |                     |                |                     |                                 |              |                  |            |                     |           |                  |
|              |              |            |                       |         |                     |                |                     |                                 |              |                  |            |                     |           |                  |
|              |              |            |                       |         |                     |                |                     |                                 |              |                  |            |                     |           |                  |
|              |              |            |                       |         |                     |                |                     |                                 |              |                  |            |                     |           |                  |
|              |              |            |                       |         |                     |                |                     |                                 |              |                  |            |                     |           |                  |
|              |              |            |                       |         |                     |                |                     |                                 |              |                  |            |                     |           |                  |
|              |              |            |                       |         |                     |                |                     |                                 |              |                  |            |                     |           |                  |

#### EN13859-1 Under roof tile

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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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

1. Apply 0.2-0.4 kg/m<sup>2</sup> of synthetic primer PRIMER SINT by roller or airless spray gun. This step is not necessary when wooden supports are involved.
2. Position the rolls to be laid dry on the laying surface, overlapping one edge over another by 10 cm at the sides and by 15 cm at the heads. (Drawing 1)
3. Remove the release film from the lower face that is divided in half along its length in one or more panels. It is always suggested to mechanically fix head & side laps. (Drawing 2)
4. Roll the surfaces and especially the joints in order to promote the adhesion of the membrane.

5. Position suitable single or double battens for subsequent laying of the sealing element consisting of a discontinuous covering mantle (tiles, roof tiles, etc.) as required by the UNI 9460: 2008 standard - Discontinuous roofing for roofs. (Drawing 3)
6. In the event of high internal relative humidity, or the presence of humidity in the wooden deck application surface, to prevent the formation of condensation on the inner face of the adhesive membrane during the night, which may cause marks or stains over time in the ceiling of the rooms below, foresee the use of MONOBIT vapor separation and diffusion layer having a polypropylene film finish mechanically fixed to the support with broad-headed nails. The adhesive membrane is then applied over the vapor diffusion layer. (Drawing 4)



## LARIX Self-Adhesive HP

### Recommendations

- The LARIX SELF-ADHESIVE HP membranes are to be applied on dry clean surfaces which must be treated with a synthetic primer, excluded are wooden roofs except OSB boards.
- Self-adhesive membranes must not be applied on sanded or talced underlays. The granulometry of these upper surfaces creates a detaching effect that prevents the self-adhering properties from achieving a fully bonded installation.
- The side & head laps must be respectively of 10 & 15 cm's.
- When applying on verticals, the apex of the membrane must be mechanically fixed with a proper flashing; where possible it is advisable to go up and over the vertical and on to the horizontal surface.
- Using the version with special printed film, immediately apply the finishing layer.
- Avoid storing the product on the roof with temperatures lower than +10°C or higher than +40°C if not for the time necessary for installation.
- With temperatures below +10°C it is necessary to apply the product using particular precautions:
  1. Store the rolls in an upright position in the original packaging, indoors and in dry and warm areas.

2. Transport the rolls to the place of application only at the time of use.
  3. The ideal application occurs at temperatures above +10°C, however it is possible to apply the product below +5°C bringing the rolls to the ideal temperature with a leister or gas torch.
- 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.**
  - Program periodical roof inspections to remove debris, mud, plants, etc. and to keep under control the waterproofing as well as accessory details (drain outlets, TV antennas, air conditioning, etc.).
  - In the eventuality in which the element to be waterproofed presents residual humidity (ex. refurbishment, application after heavy rains) it is necessary to foresee the use of air vents, which will be positioned in a way to allow for the evacuation of the humidity.
  - 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.

### Technical data

| Technical Characteristics                                      | Measure Units | Reference Norm             | P                       |                      |         | PA        |         |     | Tolerance |
|----------------------------------------------------------------|---------------|----------------------------|-------------------------|----------------------|---------|-----------|---------|-----|-----------|
| Type of reinforcement                                          |               |                            | Single strand polyester |                      |         |           |         |     |           |
| Upper face finish                                              |               |                            | TNT PPL                 | Special printed film |         | Mineral * |         |     |           |
| Lower face finish                                              |               |                            | Silicon release film    |                      |         |           |         |     |           |
| Length                                                         | m             | EN 1848-1                  | 15 -1%                  | 10 -1%               |         |           |         |     |           |
| Width                                                          | m             | EN 1848-1                  | 1 -1%                   |                      |         |           |         |     |           |
| Thickness                                                      | mm            | EN 1849-1                  | 2                       | 3                    | 4       |           |         |     | ±5%       |
| Mass                                                           | kg/m²         | EN 1849-1                  |                         |                      |         | 3,5       | 4,0     | 4,5 | ±10%      |
| Cold flexibility                                               | °C            | EN 1109                    | -20                     |                      |         |           |         |     |           |
| Flow resistance                                                | °C            | EN 1110                    | 100                     |                      |         |           |         |     |           |
| Tensile strength L / T                                         | N / 5 cm      | EN 12311-1                 | 400/300                 |                      | 500/400 |           | 400/300 |     | -20%      |
| Elongation at break L / T                                      | %             | EN 12311-1                 | 35/35                   |                      |         |           |         |     | -15       |
| Tearing resistance L / T                                       | N             | EN 12310-1                 | 120/120                 |                      | 140/140 |           | 120/120 |     | -30%      |
| Dimensional stability                                          | %             | EN 1107-1                  | -0,3                    |                      |         |           |         |     |           |
| Fire resistance                                                |               | EN 13501-5                 | F ROOF                  |                      |         |           |         |     |           |
| Fire reaction                                                  |               | EN 13501-1                 | F                       |                      |         |           |         |     |           |
| Watertightness                                                 | kPa           | EN 1928                    | 60                      |                      |         |           |         |     |           |
| Peel resistance on steel support                               | N/50 mm       | UEAtc 4.3.3<br>ASTM D 1000 | 50                      |                      |         |           |         |     | -20N      |
| Peel resistance on steel support after ageing                  | N/50 mm       | UEAtc 4.3.3<br>ASTM D 1000 | 100                     |                      |         |           |         |     | -20N      |
| Peel resistance at 180° on new polymeric selvedge              | N             | EN 12316-1                 | 50                      |                      |         |           |         |     | -20N      |
| Peel resistance at 180° on new polymeric selvedge after ageing | N             | EN 1296                    | 150                     |                      |         |           |         |     | -20N      |
| Peel resistance at 180° on removable selvedge                  | N             | EN 12316-1                 | 40                      |                      |         |           |         |     | -20N      |
| Peel resistance at 180° on removable selvedge after ageing     | N             | EN 1296                    | 130                     |                      |         |           |         |     | -20N      |

\* 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 2 mm | P 3 mm | P 4 mm | PA 3,5 kg/m <sup>2</sup> | PA 4,0 kg/m <sup>2</sup> | PA 4,5 kg/m <sup>2</sup> |
|-------------------------------------------------|--------|--------|--------|--------------------------|--------------------------|--------------------------|
| <b>Rolls size [m]</b>                           | 15x1   | 10x1   | 10x1   | 10x1                     | 10x1                     | 10x1                     |
| <b>Rolls per pallet</b>                         | 30     | 30     | 25     | 30                       | 27                       | 25                       |
| <b>Square meters per pallet [m<sup>2</sup>]</b> | 450    | 300    | 250    | 300                      | 270                      | 250                      |

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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