

# INSTALLATION GUIDE ROOFING

# CONVENTIONAL SLOPE

MORE THAN 4/12

## EAVES PROTECTION MEMBRANE UNDER SHINGLE

The eaves, the lowest part of the roof, require special waterproofing attention. The eaves protector, as its name implies, serves to protect this critical area against strong winds that could cause rain to infiltrate under the shingles or ice formation in the attic and walls. This ice accumulation can be caused by heat loss in the attic and walls. Heat melts the snow during cold periods; the resulting ice traps the water in the attic and then begins the deterioration of the structure, insulation and coatings.



**RESISTO®**

# EAVES PROTECTION MEMBRANE

## INSTALLATION REQUIREMENTS

### MINIMUM APPLICATION TEMPERATURE

- LASTOBOND SANDED FINISH: 4,5 ° C
- LB1236: 4,5 ° C

### COMPATIBLE SUBSTRATES

The substrate must be clean and free of dust, grease and any other contaminant.

No nail or screw must protrude.

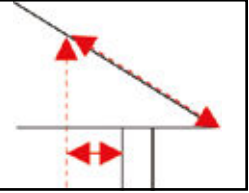
- PLYWOOD
- OSBs
- ASPHALTIC BOARDS (RESISTOBOARD)

### TOOLS REQUIRED

- KNIFE
- TAPE MEASURE
- HEAVY ROLLER

Hints and tips:

To calculate the required eaves protector width, add 30 cm to the projecting portion of the roof and bring back that point vertically on the sloping portion. The membrane must cover from that point to the bottom of the roof.



## EAVES PROTECTION MEMBRANE

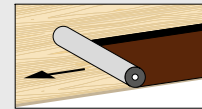
### PRODUCT REQUIRED FOR THIS STEP:

- LASTOBOND SANDED FINISH OR LB1236

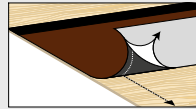
### INSTALLATION OF EAVES PROTECTION MEMBRANE

1. Install a drip edge at the bottom of the roof slope.

2. Position the membrane parallel to the horizontal edge, at the bottom of the roof, while leaving approximately 75 mm extra at the front where the gutter will later be installed. If the gutter is already installed, simply align the membrane to the roof edge.

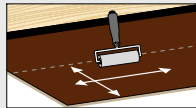


3. Peel back the first half of silicone protective film by 10 cm and press the membrane in place.

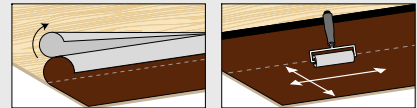


4. Continue removing the silicone film.

5. Firmly press the membrane with a heavy rubber roller to increase adhesion.



6. Peel back the silicone film of the second half and press the entire surface of the membrane with a heavy roller.

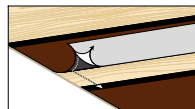


7. If the drip edge was not installed before the membrane, install it on top, at the bottom of the roof.

8. A synthetic RESISTOR membrane can then be installed horizontally on the entire surface starting from the lowest part of the roof. See the installation method on the RESISTOR's product page.

### OVERLAPS

- Lateral: 75 mm
- Transversal: 75 mm



# INSTALLATION GUIDE ROOFING

# STEEP SLOPE

MORE THAN 4/12

## UNDERLAYMENT UNDER SHEET METAL, SLATE TILE OR SHINGLE

**Under sheet metal or metal tile: LASTOBOND PRO**

Roofs with a metallic coating are subjected to extreme temperatures. It is recommended to install an underlayment supporting high temperatures without deteriorating.

**Under tile or slate (minimum slope of 3/12): LASTOBOND TU HT**

To enable a maximum level of adhesion between the underlayment and tiles, RESISTO provides a membrane whose surface is made of non-woven polyester (wooly-type). The slate tile adhesive combined with the non-woven polyester fiber underlayment creates a very strong bond with the tiles.



# RESISTO®

# TILE ROOFING UNDERLAYMENT

## INSTALLATION REQUIREMENTS

### MINIMUM APPLICATION TEMPERATURE

- EXTERIOR PRIMER \*: -10 ° C
- H<sub>2</sub>O PRIMER \*\*: -4 ° C
- LASTOBOND PRO HT-N: 4.5 ° C
- LASTOBOND PRO HT-S: 10 ° C
- LASTOBOND TU HT: 10 ° C

### COMPATIBLE SUBSTRATES

The substrate must be clean and free of dust, grease or other contaminants. Nails or screw heads should be flush.

- PLYWOOD
- OSB
- ASPHALTIC PANELS (RESISTOBOARD)

### TOOLS REQUIRED

- KNIFE
- SCRUB BRUSH
- TAPE MEASURE
- PAINT BRUSH OR STANDARD ROLLER
- HEAVY ROLLER

\* The application of a primer is required before installing the underlayment if the membrane will be exposed for more than 24 hours before laying the roof covering.

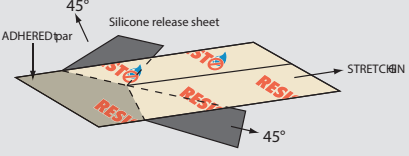
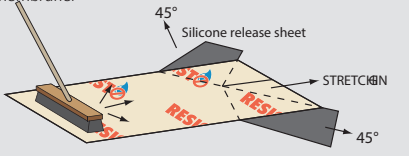
\*\* H<sub>2</sub>O PRIMER is not compatible with RESISTOBOARD.

## UNDERLAYMENT

### PRODUCTS REQUIRED FOR THIS STEP:

- EXTERIOR PRIMER OR H<sub>2</sub>O PRIMER
- LASTOBOND-PRO HT-N OR LASTOBOND PRO HT-S OR LASTOBOND TU HT

### UNDERLAYMENT INSTALLATION

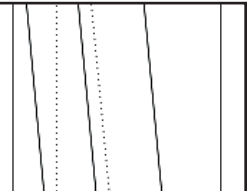
1. Apply the primer over the entire surface of the roof. The primer is dry when it is sticky to the touch, but not messy.
2. Position the first membrane parallel to the edge of the roof.
3. From the top of the roof, begin peeling back the silicone protective film over a length of about 30 to 40 cm by folding each half at a 45 ° angle to each side.
4. While applying pressure to the other end of the membrane, press the membrane to the support with a scrub brush by pressing from the center toward the sides of the membrane.
5. Continue to remove the protective film while applying pressure with the broom on the bonded portion.

### OVERLAPS

- Lateral : 75 mm
- Transversal : 150 mm

### HINTS AND TIPS

For best results, install the following membrane rows diagonally while always maintaining a minimum overlap of 75 mm. The membranes must be inclined so that the overlap is towards the bottom. For example, if the first membrane edge is to the left of the roof, the top of the second strip should be tilted the left and the bottom to the right.





# INSTALLATION GUIDE ROOFING

# LOW SLOPES

**BETWEEN 1/12 AND 4/12**

A low slope roof, which is closer to being horizontal than conventional roofs, requires waterproofing superior to traditional shingles. The single-layer system consisting of a perimeter membrane and a cap sheet is the perfect solution.

The membrane is installed as reinforcement at the perimeter of the roof and all areas at high risk of damage such as ridges, valleys, parapets and upstands. The Cap sheet, having a granulated surface, resists wind, water and UV radiation, in addition to covering the entire surface and effectively seal joints in roof details.



# RESISTO<sup>®</sup>

# 1 | PERIMETER

## INSTALLATION REQUIREMENTS

### MINIMUM APPLICATION TEMPERATURE

- EXTERIOR PRIMER: -10 °C
- H<sub>2</sub>O PRIMER \*: -4 °C
- LASTOBOND PRO HT-N: 4.5 °C
- LASTOBOND PRO HT-S: 10 °C
- REDZONE: -10 °C

### SUBSTRATS COMPATIBLES

The substrate must be clean and free of dust, grease or other contaminants. Nails or screws heads should be flush.

- PLYWOOD
- OSB
- ASPHALTIC PANELS (RESISTOBOARD)

### TOOLS REQUIRED

- KNIFE
- TAPE MEASURE
- PAINT BRUSH OR STANDARD ROLLER
- HEAVY ROLLER

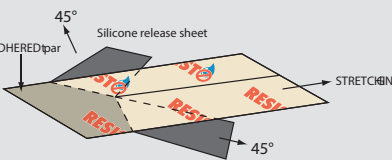
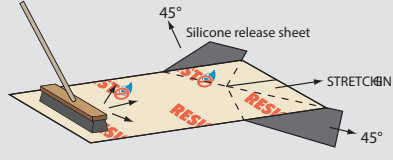
\*H<sub>2</sub>O PRIMER is not compatible with RESISTOBOARD.

## PERIMETER MEMBRANE

### PRODUCTS REQUIRED FOR THIS STEP:

- EXTERIOR PRIMER OR H<sub>2</sub>O PRIMER \*
- LASTOBOND PRO HT-N OR LASTOBOND PRO HT-S

## PERIMETER MEMBRANE INSTALLATION

1. Apply primer to the entire roof surface. The primer is dry when it is sticky to the touch, but not messy.
2. Position the first membrane parallel to the edge of the bottom of the roof.
3. Begin peeling back the silicone protective film over a length of about 30 to 40 cm by folding each half at a 45 ° angle on each side.  

4. While applying pressure to the other end of the membrane, press the membrane to the support using a scrub brush by pressing from the center toward the sides of the membrane.  

5. Continue to remove the protective film while applying pressure with the broom to the bonded portion.
6. Install two membrane widths at the bottom of the roof and one membrane width for the rest of the perimeter.
7. Install the membrane to edges, valleys and ridges.

### OVERLAPS

- Lateral: 75 mm
- Transversal: 150 mm

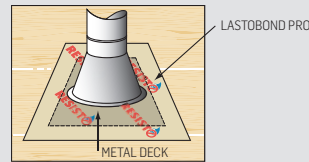
## UNDERLAYMENT ON CIRCULAR PROTRUSIONS

### PRODUCTS REQUIRED FOR THIS STEP:

- LASTOBOND PRO OR REDZONE
- ELASTOMERIC SEALER

## INSTALLATION OF THE UNDERLAYMENT ON A CIRCULAR PROTRUSION

1. Attach the flashing and metal decking to the roof surface with ELASTOMERIC SEALER applied under the decking and using roofing nails.
2. Install a piece of LASTOBOND PRO by cutting at the center a circular opening 50 mm larger than the diameter of the protrusion. The membrane should exceed the metal deck by 10 cm.
3. Firmly press the membrane with a heavy rubber roller to increase adhesion.




4. If it is impossible to install the piece in this way, proceed using two pieces overlapping by 75 mm.

## EDGE FLASHING ON UNDERLAYMENT

### PRODUCT REQUIRED FOR THIS STEP:

- LASTOBOND PRO OR REDZONE

## INSTALLING THE EDGE FLASHING

1. After installing the metal drip edge, apply a membrane strip (REDZONE or LASTOBOND PRO) of at least 10 cm wide, overlapping the drip edge and the already-installed underlayment membrane.  

2. Peel back the silicone release film over a length of 10 cm.
3. Position and press the membrane in place.



4. Continue removing the silicone film.
5. Firmly press the membrane with a heavy roller to increase adhesion.

## UNDERLAYMENT ON VERTICAL SURFACES

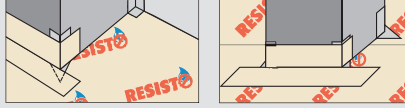
### PRODUCTS REQUIRED FOR THIS STEP:

- EXTERIOR PRIMER OR H2O PRIMER\*
- LASTOBOND PRO HT-N OR LASTOBOND PRO HT-S OR REDZONE

### INSTALLATION OF AN UNDERLAYMENT ON UPSTANDS

1. Apply the primer on the surface. The primer is dry when it is sticky to the touch, but not messy.

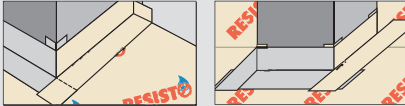
2. Apply interior or exterior gussets to each corner of the details to be covered.



3. Cut the membrane to a width of 20 cm.

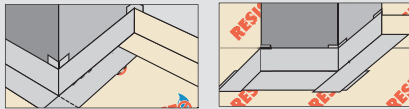
4. Then cut the ends of the membrane to the required length, adding approximately 75 mm to both ends.

5. Start with the lowest side of the detail to be treated; press the membrane in place, 10 cm on each of the two surfaces (horizontal and vertical).



6. Press the membrane firmly with a heavy roller to increase adhesion.

7. At the junction cut the lengths exceeding the covered section horizontally and fold back on horizontal and vertical surfaces.



8. For details where it would be difficult to apply the membrane properly, use a bead of ELASTOMERIC SEALER to ensure waterproofing.

## 2 | CAP SHEET MEMBRANE

### INSTALLATION REQUIREMENTS

#### MINIMUM APPLICATION TEMPERATURE

- EXTERIOR PRIMER: -10 ° C \*
- HR CAP SHEET MEMBRANE HR: 10 ° C
- ELASTOMERIC SEALER: -10 ° C
- ELASTOMERIC SEALER ALU: -10 ° C
- RESISTOFLASH COATING: 5 ° C

#### COMPATIBLE SUBSTRATES

The substrate must be clean and free of dust, grease or other contaminants. Nails or screw heads should be flush.

- PLYWOOD
- OSB
- ASPHALTIC PANELS (RESISTOBOARD)
- WATERPROOFING BASIC MEMBRANE
- LASTOBOND PRO

#### TOOLS REQUIRED

- KNIFE
- STANDARD EXTRUDER
- TAPE MEASURE
- PAINT BRUSH OR STANDARD ROLLER
- HEAVY ROLLER
- TROWEL

\*The application of EXTERIOR PRIMER is mandatory if the WATERPROOFING BASIC MEMBRANE is exposed for more than 24 hours.

### FINISHING MEMBRANE

#### PRODUCTS REQUIRED FOR THIS STEP:

- HR CAP SHEET MEMBRANE
- ELASTOMERIC SEALER
- RESISTOFLASH (OPTIONAL)

#### INSTALLING THE FINISH MEMBRANE

It is recommended to apply the HR CAP SHEET MEMBRANE horizontally, starting at the bottom of the slope.

1. Position the membrane parallel to the lower edge of the roof.

2. Overlap the sheet over itself, on half of its width, or 50 cm over the whole length already positioned. It is recommended to kneel on the unfolded portion of the membrane to keep it in place during this operation.

3. Peel back the protective film from the folded section while dropping the membrane on the support.

4. Then lift the other side of the membrane and repeat the previous step.

5. Immediately apply pressure to the membrane using a heavy metal or hard rubber roller, ensuring adhesion between the support and the membrane to avoid forming swellings, folds or gaps.

#### Hints and tips:

When the slope is rather steep it is best to apply the HR CAP SHEET MEMBRANE vertically, by placing the first strip on the lateral edge of the roof.

#### OVERLAPS

- Lateral: Use the non-granulated lateral portion of the membrane being 100 mm between each edge. The overlap must always be positioned on the upper side of the slope.
- Transversal: 150 mm with ELASTOMERIC SEALER applied with a trowel.
  - Make sure you have a minimum linear distance of 50 cm between the transverse overlap of two parallel membranes.
  - When three membrane thicknesses overlap, cut the center membrane corner at a 45 ° angle over a width of 10 cm.



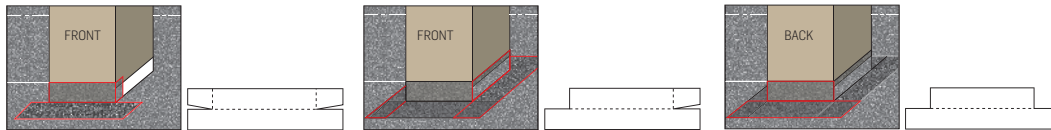
## CAP SHEET MEMBRANE ON VERTICAL SURFACES

### PRODUCTS REQUIRED FOR THIS STEP:

- EXTERIOR PRIMER
- HR CAP SHEET MEMBRANE
- ELASTOMERIC SEALER

### INSTALLATION OF THE CAP SHEET MEMBRANE ON UPSTANDS

- |  |   |   |
|--|---|---|
| 1. Apply the primer on the surface. The primer is dry when it is sticky to the touch, but not messy.   | 2. Cut the membrane to obtain a width of about 30 cm.                         | 3. Cut the ends to the required length to cover the surface and add about 8 cm at both ends according to the drawings and picture as shown below. |
| 4. Press the membrane in place, the middle against the middle horizontally and vertically, always starting the process from the lowest detail side and ending with the highest part. | 5. Firmly press the membrane with a heavy rubber roller to increase adhesion. | 6. For details where it would be difficult to apply the membrane properly use RESISTOFLASH.   |



## FINISHING PARAPETS

HR CAP SHEET MEMBRANE must cover the vertical surface of the parapet up to approximately 150 mm above the membrane underlay.

- |   |   |
|---|---|
| 1. Apply the metal flashing over the existing membrane. | 2. Apply a bead of ELASTOMERIC SEALER on top of the metal flashing. |
|---|---|

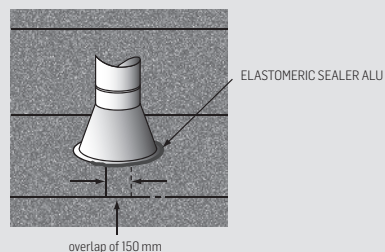
## CAP SHEET MEMBRANE ON CIRCULAR PROTRUSION

### PRODUCTS REQUIRED FOR THIS STEP:

- FINISHING MEMBRANE
- ELASTOMERIC SEALER ALU

### INSTALLATION OF MEMBRANE ON A CIRCULAR OUT

- |   |   |   |
|---|---|---|
| 1. Cut the membrane to obtain a length to cover approximately 75 mm longer than the middle of the metal deck. | 2. Practicing a semi-circular opening at the end of the membrane, in the metal flashing shape, and glue in place. | 3. Cut a semi-circular opening in the second membrane, making sure to obtain a transverse overlap of 150 mm on the membrane already in place. |
| 4. Firmly press the membrane with a heavy rubber roller to increase adhesion.                                 | 5. Apply a bead of ELASTOMERIC SEALER ALU to seal around the membrane and metal deck.                             |   |



### OPTIONAL FINISH

RESISTOFLASH: Small colored granules can be applied to the finishing coat of RESISTOFLASH immediately after its application when the surface is still wet. This application is performed from bottom to the top with a plastic spatula, for example.