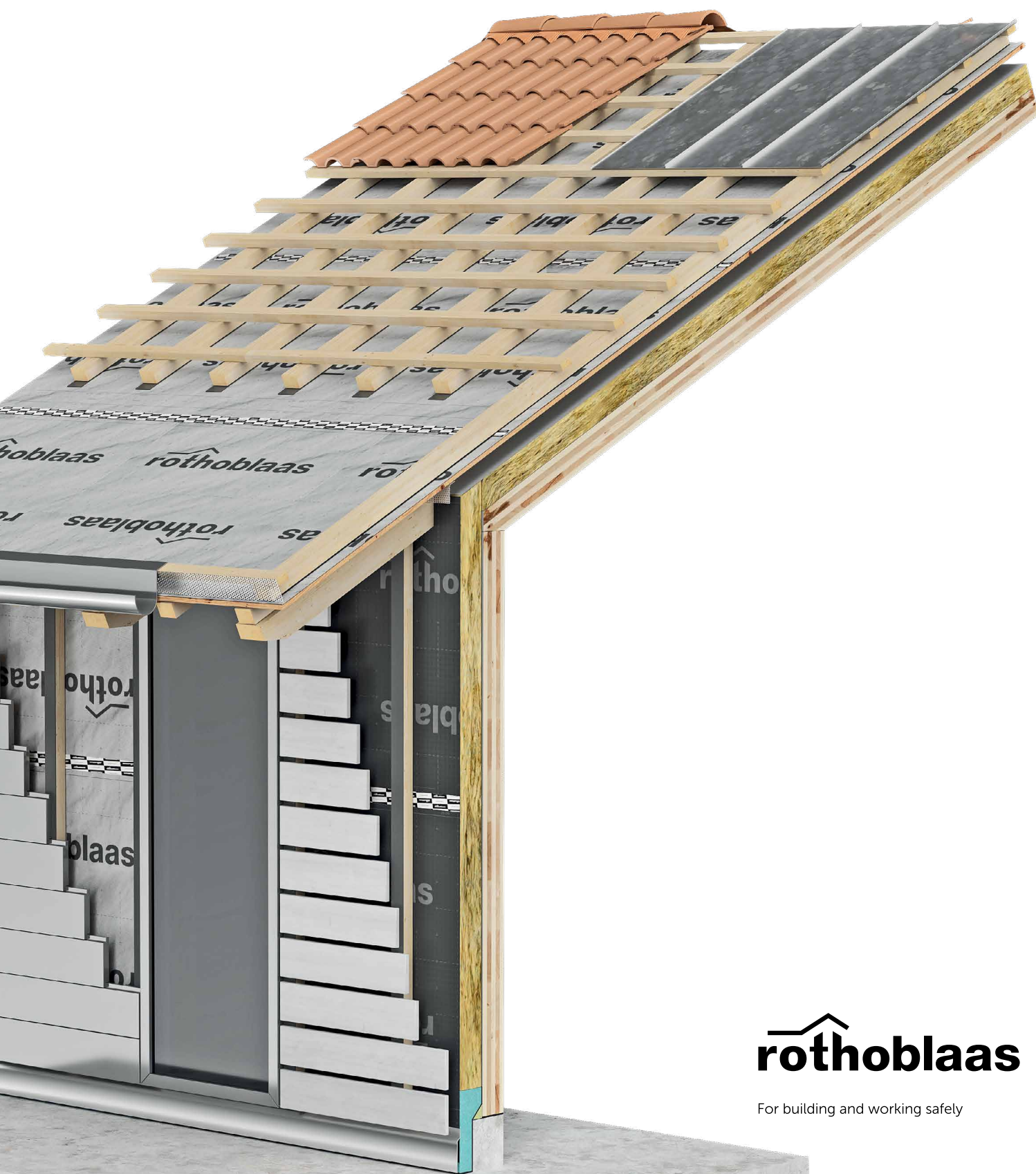


EXTERNAL MEMBRANES

RECOMMENDATIONS FOR INSTALLATION



 **rothoblaas**

For building and working safely

EXTERNAL MEMBRANES



1 MAXIMUM SAFETY MONOLITHIC MEMBRANES

ROOF | WALL

TRASPIR EVO UV ADHESIVE - TRASPIR EVO 300
TRASPIR FELT EVO UV 210 - TRASPIR EVO SEAL 200
TRASPIR EVO 160 - TRASPIR EVO 135

ROOF

TRASPIR WELD EVO 360 - TRASPIR DOUBLE EVO 340 - TRASPIR EVO 220

WALL

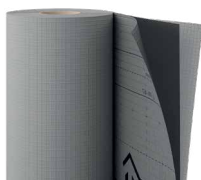
TRASPIR EVO UV 210 - TRASPIR EVO UV 115



2 TROPICAL CLIMATES

ROOF | WALL

CLIMA CONTROL NET 160



3 SEALABLE

ROOF

TRASPIR WELD EVO 360



4 REFLECTIVE

ROOF | WALL

TRASPIR ALU FIRE A2 430
TRASPIR ALU 200

ONLY WALL

TRASPIR ALU 120



5 OPEN JOINTS FAÇADE

WALL

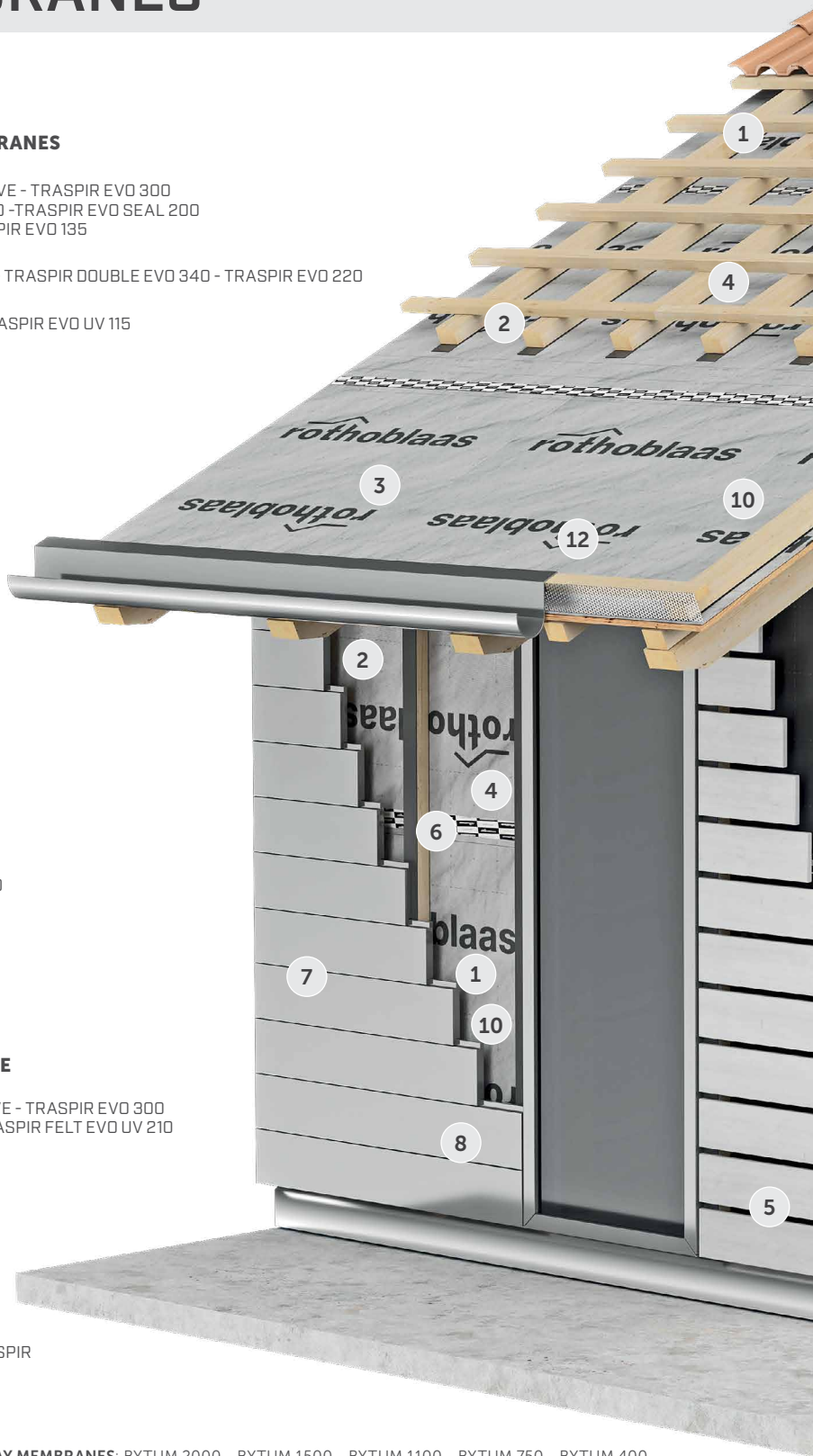
TRASPIR EVO UV ADHESIVE - TRASPIR EVO 300
TRASPIR EVO UV 210 - TRASPIR FELT EVO UV 210
TRASPIR EVO UV 115



6 TRANSPARENT

ROOF | WALL

DEFENCE ADHESIVE TRASPIR



NOTES:

The roof installation instructions also apply to **BITUMINOUS UNDERLAY MEMBRANES**: BYTUM 2000 - BYTUM 1500 - BYTUM 1100 - BYTUM 750 - BYTUM 400

✓ MATERIALS

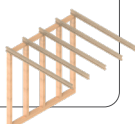
CLT

Solid timber panels made by gluing layers of timber at right angles, with cross-laminated boards featuring orthogonal grain directions. The membrane is placed directly on the panel.



TIMBER FRAME

Lightweight construction system using vertical and horizontal low dimension's timber members to form the building's load-bearing structure. The membrane is placed directly on the structure.



CLADDING BOARDS

Frame walls or floors coated with materials like plywood, OSB, or plasterboard for stability and enclosure. The membrane is placed directly of the cladding board.





REDUCED EXPOSURE MICROPOROUS MEMBRANES

7

ROOF | WALL
TRASPIR ADHESIVE 260 - TRASPIR ALU 200
TRASPIR 150 - TRASPIR 135

ROOF
TRASPIR DOUBLE NET 270 - TRASPIR 200
TRASPIR NET 160

WALL
TRASPIR ALU 120 - TRASPIR 110 - TRASPIR 95



METAL CLADDING

8

ROOF | WALL
TRASPIR METAL



PUNCTURE RESISTANT

9

ROOF | WALL
TRASPIR EVO SEAL 200



ADHESIVE

10

ROOF | WALL
TRASPIR EVO UV ADHESIVE
TRASPIR ADHESIVE
DEFENCE ADHESIVE TRASPIR



VAPOUR CONTROL LAYER ON THE OUTER SIDE

11

ROOF
BARRIER ALU NET SD 1500
CLIMA CONTROL NET
VAPOR 140 - VAPOR 150 - VAPOR NET 180
VAPOR EVO 190 - VAPOR 225



FIRE REQUIREMENTS

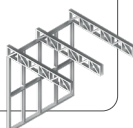
12

ROOF | WALL
TRASPIR ALU FIRE A2 430
TRASPIR EVO UV ADHESIVE - TRASPIR EVO 300
WALL
TRASPIR EVO UV 210 - TRASPIR EVO UV 115



STEEL FRAMING

Lightweight construction system composed of low dimension's steel or aluminium studs and tracks. The membrane is placed directly of the metal structure.



INSULATION LAYER

Applied to the exterior of the building envelope, it consists of rigid or semi-rigid panels to ensure thermal continuity and mechanical support. The membrane is applied directly to the surface of the insulation using staples or large-head nails.



CONCRETE OR MASONRY

Continuous structural element made of traditional materials, characterised by high mechanical strength and stability of the building envelope. The membrane is placed directly on the surface.

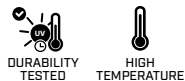


WIND TIGHTNESS RELATED PRODUCTS

FLEXI BAND UV

UNIVERSAL SINGLE-SIDED ADHESIVE TAPE WITH HIGH UV STABILITY AND TEMPERATURE RESISTANCE

FLEXI BAND UV universal tape provides high UV stability and heat resistance up to 120°C.



FACADE BAND UV

UNIVERSAL SINGLE-SIDED TAPE, RESISTANT TO UV RAYS

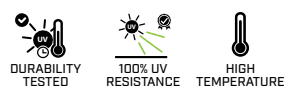
It is a universal tape with high UV stability, ideal for façade sealing and for overlapping on UV-ray resistant membranes.



FLEXI BAND

UNIVERSAL SINGLE-SIDED HIGH-ADHESIVE TAPE

The combination of carrier and acrylic dispersion glue is designed for good adhesion even in extremely cold temperatures.



SPEEDY BAND

UNIVERSAL SINGLE-SIDED TAPE WITHOUT RELEASE LINER

Can be applied both internally and externally, guarantees fast and secure sealing on the most common materials.



MULTI BAND

SPECIAL HIGH-ADHESION TAPE, CAN BE PLASTERED

Technical fabric ideal for subsequent plastering, ensuring an excellent aesthetic result by allowing the tape to be concealed behind cladding and plaster.



MULTI BAND UV

SPECIAL UV-RESISTANT HIGH-ADHESION TAPE

Waterproof, multifunctional and soft, it is easy to apply and can be used in very different contexts, both in terms of climate and construction method.



FRONT BAND UV 210

UNIVERSAL SINGLE-SIDED TAPE, HIGHLY RESISTANT TO UV RAYS

It is the universal tape made of TRASPIR EVO UV 210 monolithic membrane that provides excellent aesthetic performance even in the most demanding architectural solutions.



PLASTER BAND OUT

SPECIAL HIGH-ADHESION TAPE, CAN BE PLASTERED

Its excellent adhesion makes it ideal for application on most surfaces, even at low temperatures.



SMART BAND

UNIVERSAL SINGLE-SIDED TAPE WITH SEPARABLE LINER

The product has a unique separating film which, thanks to a special treatment, can be divided at any point without pre-cutting, thus adapting to any installation requirement.



INVISI BAND

TRANSPARENT SINGLE-SIDED TAPE WITHOUT RELEASE LINER, UV-RESISTANT

It is the water- and heat-resistant, transparent, liner-free, UV- and heat-resistant adhesive tape.



DOUBLE BAND

UNIVERSAL DOUBLE-SIDED TAPE

The solvent-free acrylic glue mix ensures excellent adhesion on most common supports, even at low temperatures. The membrane joint created with DOUBLE BAND recorded the highest tensile strength value following internal tests conducted with the best-performing tapes in the range.



EASY BAND

UNIVERSAL SINGLE-SIDED TAPE

Progress adhesion, stable over time, for the most common supports. The adhesive, carrier and dimensions are also designed for prefabrication.



NAIL PLASTER | GEMINI

HIGH-ADHESION NAIL SEALING TAPE

The closed cell polyethylene structure ensures the opening created by the fastening systems is waterproof. The product is resistant to heavy rain, confirming its efficacy and robustness in the most adverse conditions.



NAIL BAND

NAIL POINT SEALANT TAPE BUTYL

Thanks to its modified butyl formulation, it ensures excellent durability even when subjected to thermal stress. Also suitable for installation at low temperatures



MANICA PLASTER

ADHESIVE SEALING SLEEVE THAT CAN BE PLASTERED

The butyl compound is covered with a polypropylene fabric that can be plastered. Thanks to its special modified butyl formulation, it ensures excellent durability even when subjected to thermal stress.



MANICA FLEX

SEALING SLEEVE FOR CONDUIT AND CABLE PASSAGE

MANICA FLEX sealing sleeve ensures airtightness and watertightness for cables and other pass-through elements.



RECOMMENDATIONS FOR INSTALLATION WALLS

This section describes the correct installation of external membranes on walls, regardless of the construction system (CLT, timber frame, steel frame, or external panel cladding).

GENERAL GUIDELINES:

- Plan the installation before starting.
- It's important to have a clean worksite.
- Store the materials in their original packaging in a dry, fresh, ventilated and UV protected location.
- Apply adequate tension to the membrane to ensure a correct adhesion of the sealing tapes.
- Avoid excessive tension to prevent damaging the membrane.
- Plan site activities to limit exposure to weather conditions, membrane degradation and stress on taped joints.
- Determine the number of staples according to the project conditions and expected loads; the values indicated are for guidance only.
- Refer to the **CONSTRUCTION SITE, WATER AND DURABILITY** Smartbook for correct membrane management on site.

NOTES

The images show a CLT wall, but the installation instructions apply to any substrate.



SITE PREPARATION

Clean the area and remove any dirt, staples or other imperfections that could damage the membrane. Verify to have the required tools and materials.

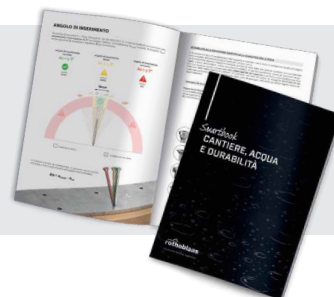


MEASUREMENT

Measure 1,5 m from the floor and mark the reference line for the top edge of the first membrane (the lower one).

ON SITE, WATER CHANGES THE RULES

Rain, standing water and unprotected details can alter the conditions defined at the design stage. With this Smartbook, we have translated on-site experience into technical criteria and workable solutions. Our experience is in your hands.



Download the
SMARTBOOK



INSTALLATION OF THE BOTTOM MEMBRANE

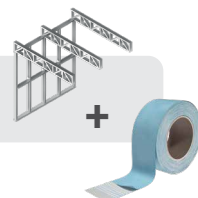
Align the upper edge of the bottom membrane with the previously marked reference line.

Fasten the top end of the membrane within the overlapping area.

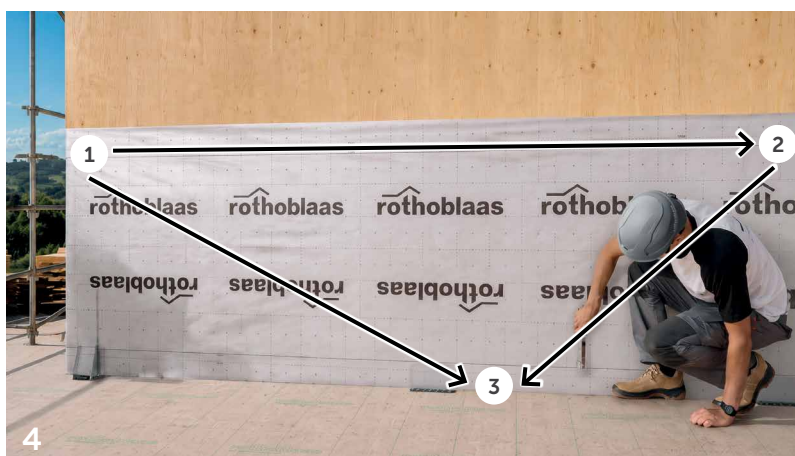
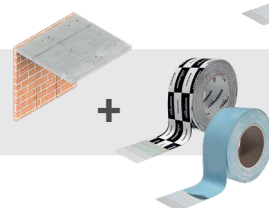
Apply 4–5 staples at the initial fastening point, making sure they are positioned in the overlap zone and oriented perpendicular to the direction of membrane tension.

Discard membrane parts compromised during transport or construction.

For steel frame structure use **DOUBLE BAND**.



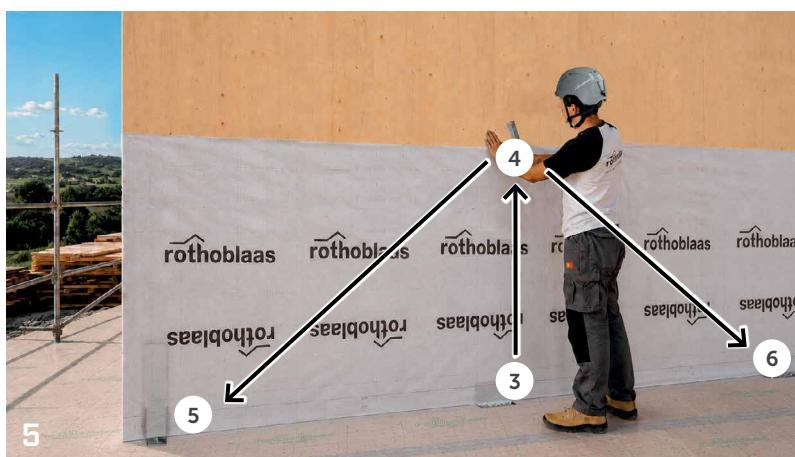
For concrete structures, use a large-head hardened nail. Alternatively, if the surface is clean, temporarily secure the membrane with **FLEXI BAND** or **DOUBLE BAND**.



FIXING AND TENSIONING THE LOWER MEMBRANE – PHASE 1

Fasten the first point at the corner (1), then stretch the membrane and fasten the opposite corner (2). Proceed by fastening the central part of the bottom edge (3).

The membrane should be evenly tensioned, adhering well to the wall, without wrinkles or folds, but also without excessive tension.



FIXING AND TENSIONING THE LOWER MEMBRANE – PHASE 2

Starting from the centre of the bottom edge (3), fasten the centre of the top edge (4).

Tension the membrane and proceed with fixing the lower corners (5 and 6).

Apply 2–3 staples at the main fastening points and add intermediate staples as required according to the project conditions (construction system, installation time, weather conditions, etc.).

For sealing of the ground connection, see page 10



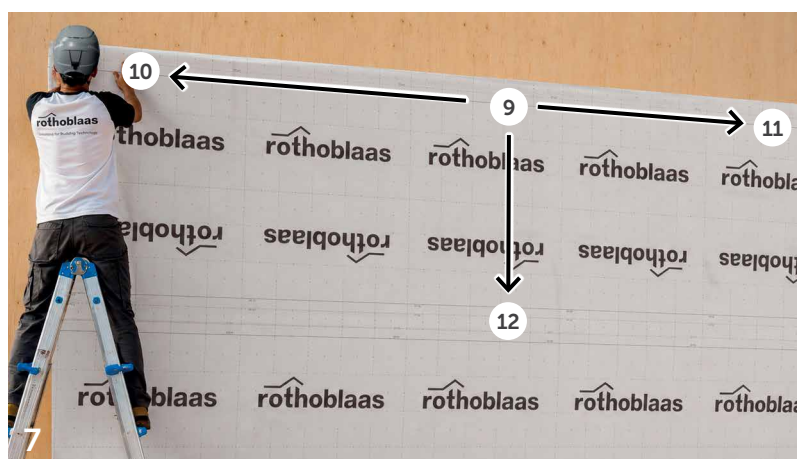
The number of staples must be determined according to the design and installation conditions, such as exposure time, installation method, weather conditions, substrate, membrane length and the pressure applied during the blower door test. For standard timber frame applications, use one staple per stud; on CLT panels, use one staple every 50 cm.



FIXING AND TENSIONING THE UPPER MEMBRANE – PHASE 1

Placing the top membrane with a 100 - 150 mm overlap on the bottom membrane, covering the staples. Then fasten the lower corners (7–8) followed by the upper central section (9) using staples applied close to the edge of the timber structure, or adhesive tape if the structure is made of steel.

Discard membrane parts compromised during transport or construction.



FIXING AND TENSIONING THE UPPER MEMBRANE – PHASE 2

From the centre of the upper edge (9), secure the lateral corners (10–11) and stretch the membrane downward to fasten the centre of the bottom edge (12).

Apply 2–3 staples at each main fastening point. Add further intermediate staples as required according to the specific project conditions (construction system, installation time, weather conditions, etc.).



OVERLAP SEALING

OPTION 1

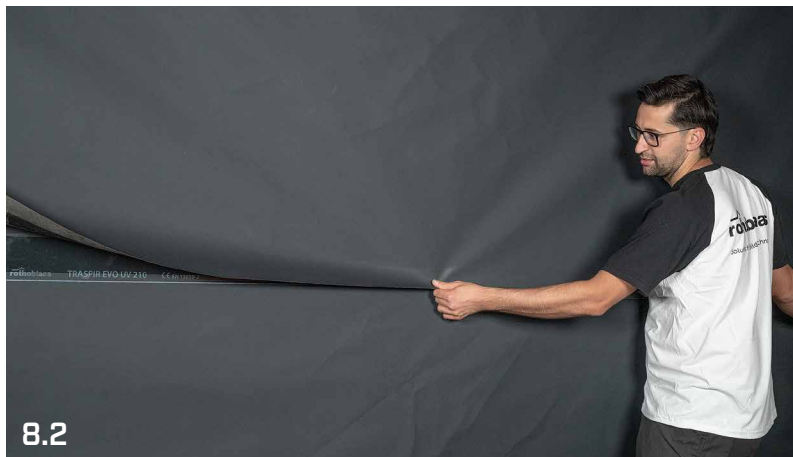
Once the membrane has been fastened, seal the joint using a Rothoblaas tape for outdoor applications. Use the ROLLER to ensure proper adhesion.



ROTHOBLAAS RECOMMENDS

ROLLER
ROLLER FOR TAPES





OVERLAP SEALING

OPTION 2

For membranes with integrated double tape, remove the release liner, press the upper membrane onto the adhesive and finish bonding with the ROLLER.



ROTHOBLAAS RECOMMENDS

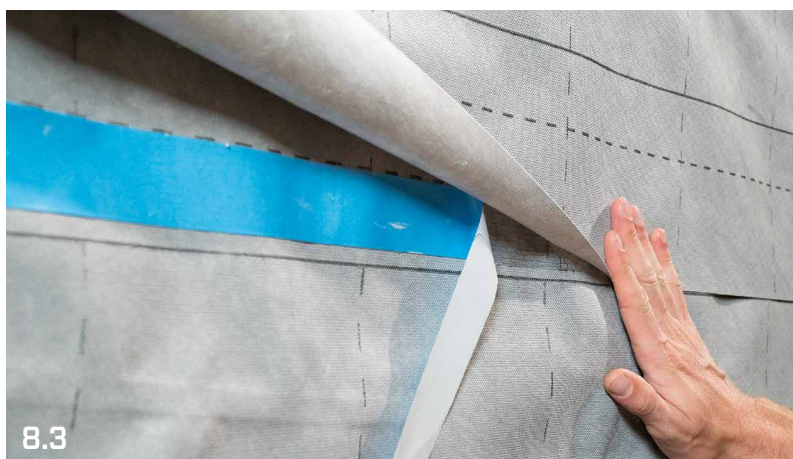
■ **ROLLER**
ROLLER FOR TAPES



■ **MARLIN**
CUTTER ALLROUND



■ **CUTTER**
FOR PROFESSIONAL CUTTING



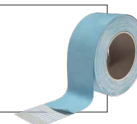
OVERLAP SEALING

OPTION 3

For concealed sealing, where no integrated double tape is provided, DOUBLE BAND or Rothoblaas adhesives for external use may be used.

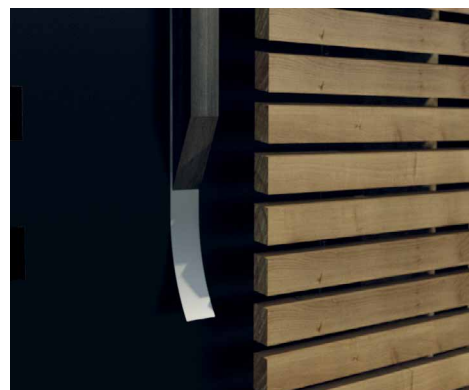
ROTHOBLAAS RECOMMENDS

■ **DOUBLE BAND**
UNIVERSAL DOUBLE-SIDED TAPE



TEMPORARY AND PERMANENT FASTENING

Fastening with staples, adhesive tapes or nails must be regarded as temporary only. Provide permanent fastening using suitably-sized battens, properly anchored to the substrate, while ensuring an adequate ventilation cavity. Install the battens with a sealing system (NAIL PLASTER, GEMINI or NAIL BAND) to ensure airtightness and watertightness at the penetration points. For further details, see page 15.



RECOMMENDATIONS FOR INSTALLATION

BASE CONNECTIONS

The ground connection is one of the most critical points in the building. The solutions shown are examples and must be adapted to the specific project conditions. Membrane sealing must be determined according to the entire construction detail and its characteristics.

STRUCTURE ALIGNED WITH THE FOUNDATION

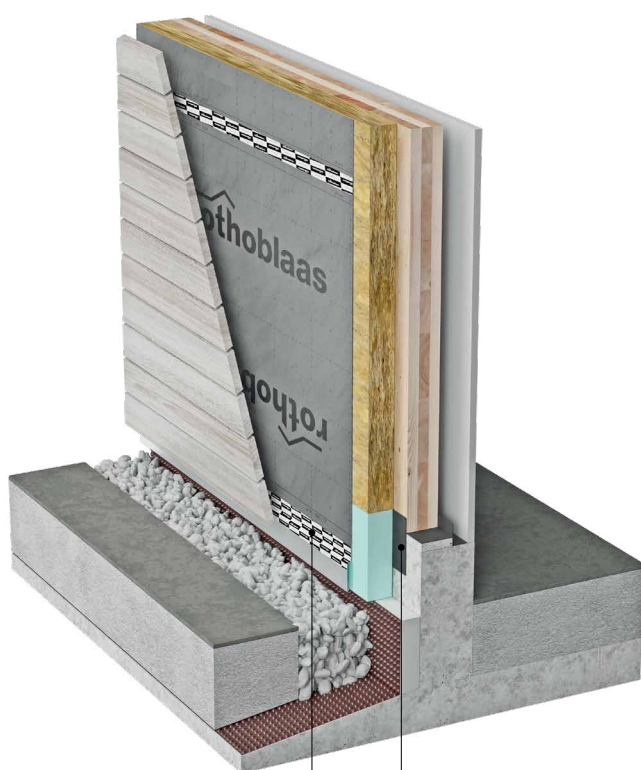
STRUCTURE SET BACK FROM THE FOUNDATION

OUTDOOR

INDOOR

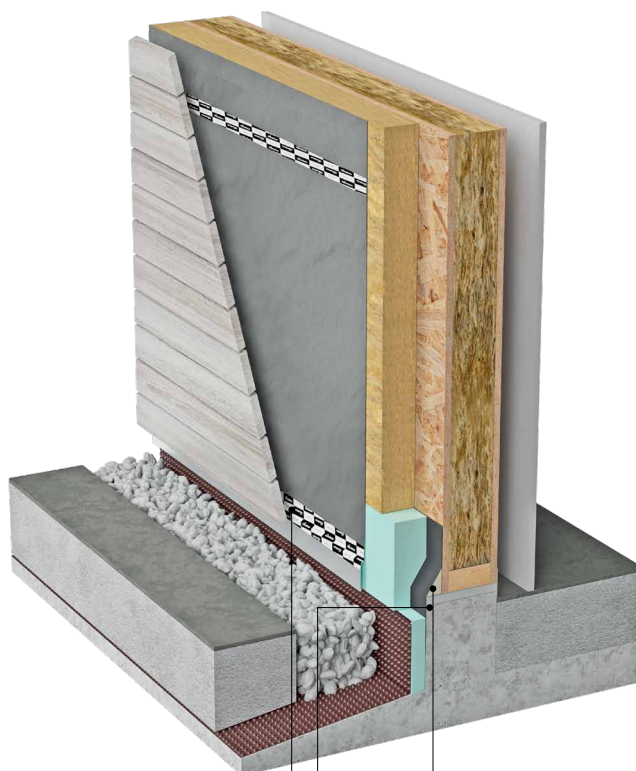
OUTDOOR

INDOOR



Rothoblaas tape for windtightness

**PROTECT / GROUND BAND
PLASTER BAND OUT**



Rothoblaas tape for windtightness

PROTECT / GROUND BAND

shaped insulation to turn up the waterproofing and prevent standing water

ROTHOBLAAS RECOMMENDS

PROTECT
SELF-ADHESIVE
BUTYL BAND,
CAN BE PLASTERED



GROUND BAND
SELF-ADHESIVE
BITUMINOUS
MEMBRANE



PLASTER BAND OUT
SPECIAL
HIGH-ADHESION TAPE,
CAN BE PLASTERED



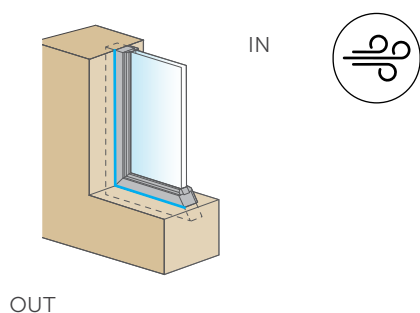
RECOMMENDATIONS FOR INSTALLATION

WINDOWS – EXTERNAL SIDE

THREE LEVELS OF PROTECTION

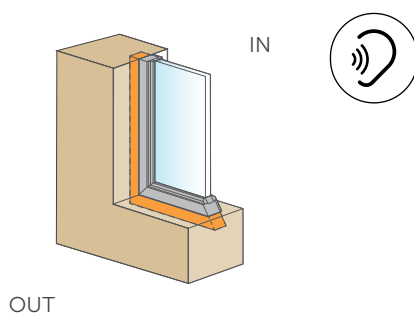
The three level method, which is used often in most European countries, identifies the airtightness, windtightness and thermal-acoustic insulation levels for proper placement of doors and windows. Window performance depends on the effectiveness of all three levels. Rothoblaas offers specific solutions for each one.

WIND TIGHTNESS LEVEL



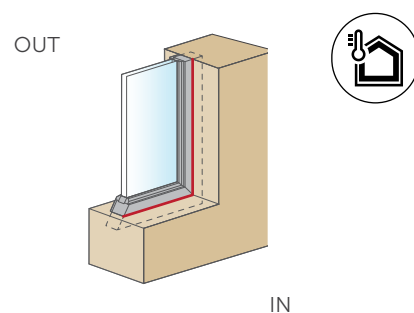
The most external level must guarantee protection against weather. If not properly developed, it can cause infiltration and water stagnation in the lower part of the window opening.

THERMAL AND ACOUSTIC INSULATION LEVEL



The intermediate level must guarantee thermal-acoustic performance and the mechanical fixing of the door/window frame. When selecting products, it is important to remember that an effective noise reduction solution does not always equate to good thermal insulation.

AIRTIGHTNESS LEVEL



The most internal level must be airtight. Its function is to prevent the passage of vapour laden air, which could create condensation in the joints and mould on the surface.

NOTES

- Special care must be taken to seal all points.
- Corners require careful checking, as they are among the areas most prone to discontinuities in the seal.
- Use NAIL PLASTER, GEMINI or NAIL BAND at the fastening points of battens or other structures to maintain airtightness and watertightness.
- For more information on specific products and their characteristics, refer to the **TAPES, MEMBRANES, SEALANTS AND FIRE PROTECTION** catalogue.

The theory, in practice, is on YouTube

When you need a deeper understanding of how and where to apply our products, a catalogue isn't enough.

Installation instructions and practical tips for each field of application are available on our **YouTube channel**.

Find our tips at:



rothoblaas.com



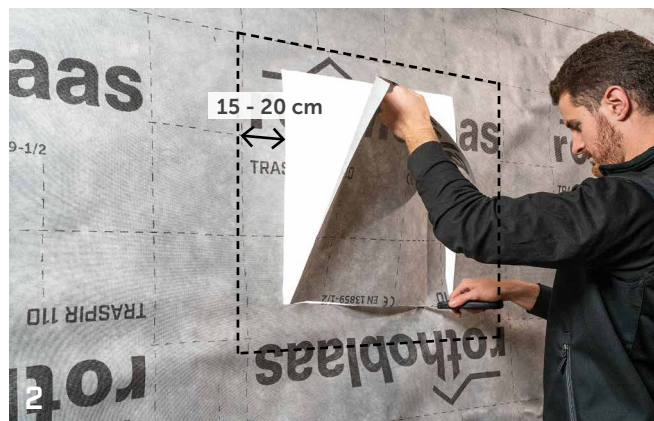
RECOMMENDATIONS FOR INSTALLATION

WINDOWS – EXTERNAL SIDE



SEALING THE TOP EDGE

Before installing the membrane on the external side of the wall, install a strip of membrane along the top edge of the window opening to ensure windtightness.



REMOVING THE MEMBRANE AT OPENINGS

Once the external membrane has been installed over the entire wall, cut it at the window opening, maintaining a distance of 15–20 cm between the cut and the edge of the opening.



MEMBRANE CUTTING

Make 45° cuts at the corners of the opening and complete the cut according to the dimensions of the window. Fold the membrane into the opening and seal it with Rothoblaas tape.



SEALING THE BOTTOM EDGE

Seal the bottom edge of the window with a strip of membrane and complete the sealing of the bottom corners.



CHECK THAT THE MEMBRANE IS SECURELY FASTENED

Check that the edges of the membrane are securely fastened. If necessary, secure the membrane with staples, positioning the latter close to the edge in the areas that will subsequently be sealed with tape.



SEALING THE EDGES

Seal the edges of the membrane with weather-resistant tape. Use the ROLLER to improve the tape adhesion.

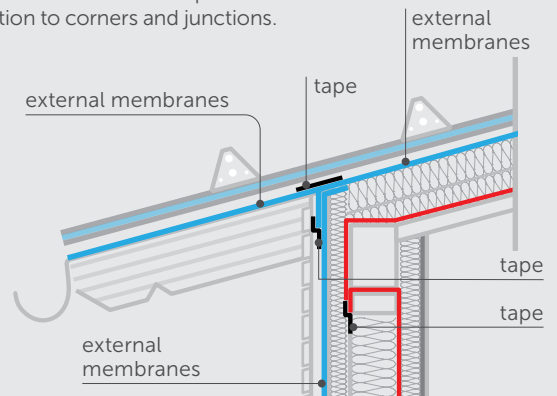
RECOMMENDATIONS FOR INSTALLATION

ROOF - INTERNAL SIDE

Correct installation of the membrane is essential to ensure windtightness and protect the insulation build-up. Installation must ensure continuity between the wall and the roof, with particular attention to corners and junctions.

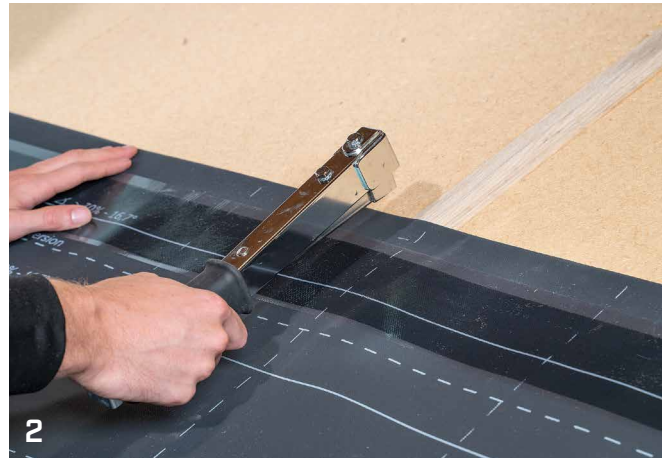
GENERAL GUIDELINES

- Follow the basic principles set out in the previous instructions (e.g. fastenings, taping and overlaps).
- Always seal staples and any membrane imperfections using Rothoblaas tape.
- Limit exposure to weather conditions and protect the membrane from mechanical damage, chemicals and heat sources.
- Permanently secure the membrane and provide ventilation using timber battens anchored with screws or other suitable fastening systems. Seal the fastening points of the battens using NAIL PLASTER, GEMINI, or NAIL BAND.



1 POSITIONING THE FIRST MEMBRANE

Depending on the geometry and pitch of the roof, install the membrane starting from the lowest point, near the gutter or water outlet.



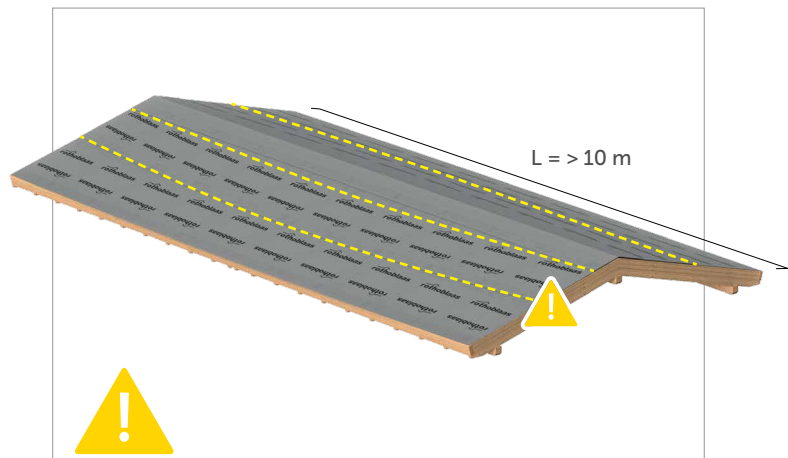
2 MEMBRANE FASTENING

Following the tensioning sequence indicated for the wall, secure the membrane with staples or large-head nails. Where possible, position the fastenings within the overlap so that they are covered and sealed by the overlapping membrane. Avoid over-tensioning the membrane.



3 POSITIONING THE SECOND MEMBRANE

Position the second membrane, observing the recommended overlap: 10 cm for roofs with a pitch greater than 30°, 15 cm for membranes with integrated tapes and 20 cm for roofs with a pitch of less than 30°. The overlap dimensions are indicated directly on the membrane.



LONG ROOF SLOPES (> 10 m):

These increase the risk of the membrane sagging and require greater attention to the fastening system and taping



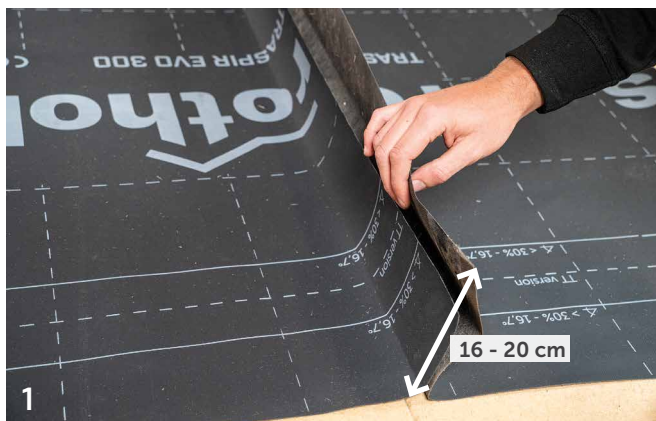
LONGITUDINAL OVERLAP – apply one of the following options

4a Membrane with double integrated tape: remove the release liner and use the ROLLER

4b Single-sided tape for external use: apply the tape over the overlap and use the ROLLER

4c Double-sided tape: apply it between the lower and upper membranes

TRANSVERSAL HEAD OVERLAPPING



PREPARE THE OVERLAP

To create a transverse overlap, leave 16–20 cm of the lower membrane exposed to allow the upper membrane to overlap it.



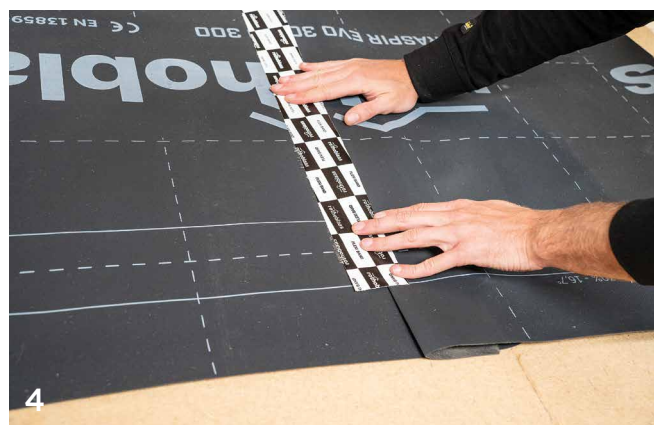
CREATE THE OVERLAP FOLD

Check the dimensions and lay out both membranes. Then fold the upper membrane over the lower membrane. The fold must be between 8 and 10 cm.



FOLD THE OVERLAP FOLD TOWARDS THE LOWER MEMBRANE

After checking the fold, make sure it is facing towards the lower membrane, i.e. the membrane installed first. Do not fold it towards the upper membrane, as this could compromise the watertightness of the overlap.



SEAL THE FOLD WITH TAPE

Seal the joint between the membranes with tape suitable for external use and for the roof pitch. Use the ROLLER to ensure proper adhesion.

RECOMMENDATIONS FOR INSTALLATION

SEALING FASTENING SYSTEMS

NOTES

- Fastening with staples, adhesive tapes or nails must be regarded as temporary only. Provide permanent fastening using suitably-sized battens, properly anchored to the substrate, while ensuring an adequate ventilation cavity.
- The use of nail-point sealing tapes applied only at individual fastening points is not recommended, as any additional fastenings for photovoltaic systems or other finishes may not be sealed.
- The use of nail-point sealing tape is always recommended, as it increases the reliability of the roof's watertightness. In certain cases, as provided for by some national regulations, omission of the nail-sealing tape may be considered depending on the roof pitch, type of roof covering and the level of safety required for the building.

OPTION 1 - GEMINI double-sided nail-sealing tape



APPLY THE NAIL-SEALING TAPE TO THE BATTEN

To ensure watertightness at the fastening points, use GEMINI, a double-sided nail-sealing tape applied to the batten before installation.



POSITION THE BATTEN AND SECURE THE TAPE

Position the batten. Once its correct position has been checked, remove the release liner from the tape and secure the batten. The fasteners passing through the batten are thereby sealed.

OPTION 2 - NAIL PLASTER or NAIL BAND single-sided nail-sealing tape



APPLY THE NAIL-SEALING TAPE TO THE MEMBRANE

Apply the single-sided nail-sealing tape directly to the membrane, applying light pressure. Check that it is correctly positioned in relation to the batten before application, as the tape cannot be repositioned.



POSITION THE BATTEN OVER THE TAPE

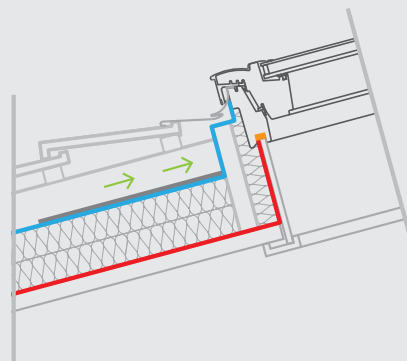
Once the nail-sealing tape has been installed, position the batten over the tape and secure it so that the fasteners pass through the tape itself, sealing the hole in the membrane.

ROOF WINDOW

For roof windows too, continuity of installation must be ensured according to the three-level protection principle: airtightness on the internal side, thermal and acoustic insulation in the intermediate layer, and weathertightness on the external side.

Roof window manufacturers generally also provide dedicated accessories and systems to ensure correct sealing. These systems allow the window to be effectively connected to the membrane installed on the roof.

Alternatively, Rothoblaas products may be used.



Watch the dedicated video on sealing roof windows with Rothoblaas products.



rothoblaas.com



ROTHOBLAAS RECOMMENDS

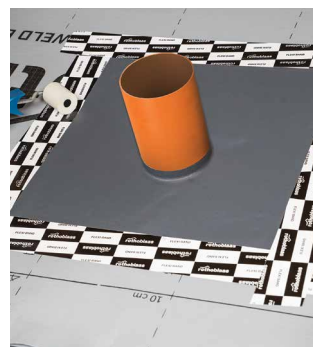
MANICA FLEX
SEALING SLEEVE
FOR CONDUIT AND
CABLE PASSAGE



Chemical sealing

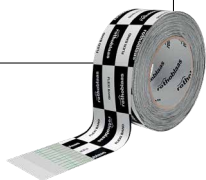


Hot-air sealing



Tape sealing

FLEXI BAND
UNIVERSAL SINGLE-SIDED
HIGH-ADHESIVE TAPE



1



2

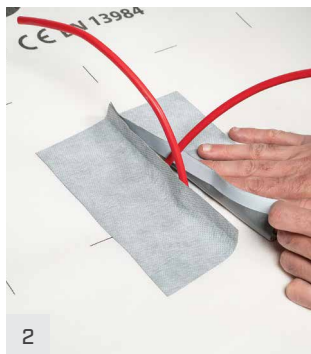


3

MANICA PLASTER
ADHESIVE SEALING
SLEEVE
THAT CAN BE PLAS-
TERED



1

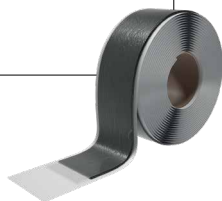


2

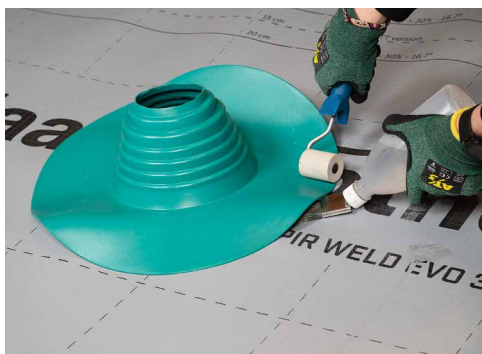


3

BLACK BAND
UNIVERSAL SINGLE-SIDED
BUTYL TAPE



WELDING PIPE
SLEEVE



Chemical sealing



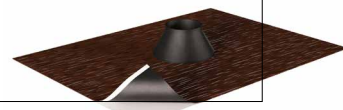
Hot-air sealing



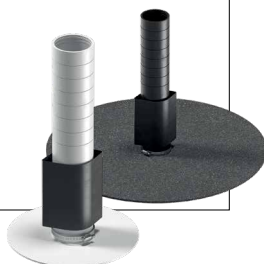
MANICA LEAD
LEAD PROFILE
WITH EPDM SLEEVE



MANICA POST
ADHESIVE SEALING
SLEEVE FOR OUTDOORS



MANICA
SEALING SLEEVE WITH
SHRINK TUBING AND CLAMP



TUBE STOPPER
CABLE SEALING PLUGS



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