

INSTALLATION METHODS - REVERSO



1. INSTALLATION METHODS

1.1. GENERAL

1.1.1. ALUTHERMO® REVERSO

An insulating and reflective vapour barrier is used in ceiling and wall structures that require vapour barriers. This insulating vapour barrier can be combined with existing insulation. It can be used exclusively on the roof or on the walls inside. It is PEB certified.

The Aluthermo® REVERSO is not symmetrical. On one side it consists of a reflective aluminium layer and on the other side of a white polyester wadding. The reflective membrane is always unrolled with the reflective side facing inwards, while the polyester batting is placed directly in contact with the outside of the building with the additional insulation between the rafters, if applicable.

1.1.2. PROJECT PLANNING

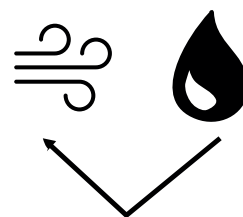
It is always advisable to carry out a structural assessment and moisture analysis to identify the correct vapour barrier solution.

1.1.3. WATERPROOFING AND AIRTIGHTNESS

Aluthermo® REVERSO is a type of waterproof vapour barrier. With an Sd value of ≥ 6000 m, the film is waterproof. It is laid over the entire surface of the construction. The different Aluthermo® REVERSO sheets are laid overlapping by 10 cm and sealed with the 100 mm wide aluminium Aluthermo adhesive tape. To ensure perfect adhesion, the surfaces should be free of dust and moisture. After applying the tape, wipe over it with a dry cloth to ensure optimal adhesion.

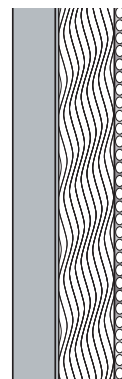
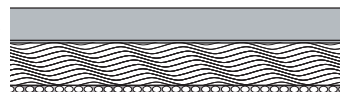
1.1.4. PRESERVING THE AIR GAP

To improve the insulating effect of Aluthermo® REVERSO in radiant heat, it is recommended to maintain a minimum air gap of 2 cm between the reflective membrane and the possible cladding.



1.1.5. THE UPPER MEMBRANE :

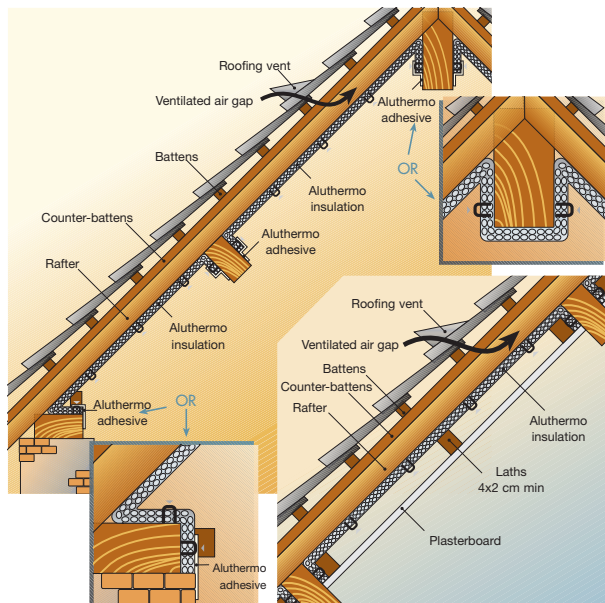
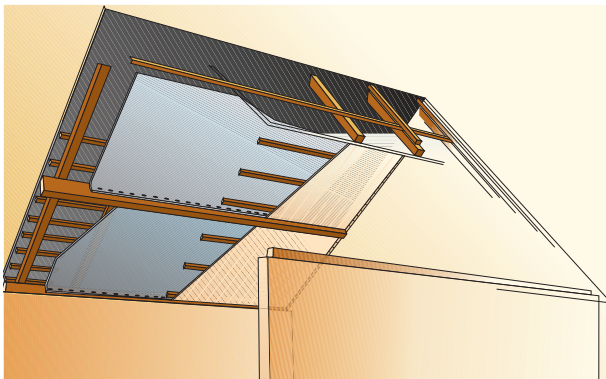
The upper membrane is easily distinguished from the lower aluminum. This upper membrane is waffled and less shiny. It must always be turned on the colder side, outside the building, while the lower aluminium foil must always be turned on the warmer side, inside the building. The upper membrane is clearly recognisable by its red marking: **EXTERNAL SIDE - FACE EXTERIEURE - BUITENZIJDE**



1.2. INSTALLATION AS ROOF INSULATION

1.2.1. ROOF INSULATION FROM INTERIOR

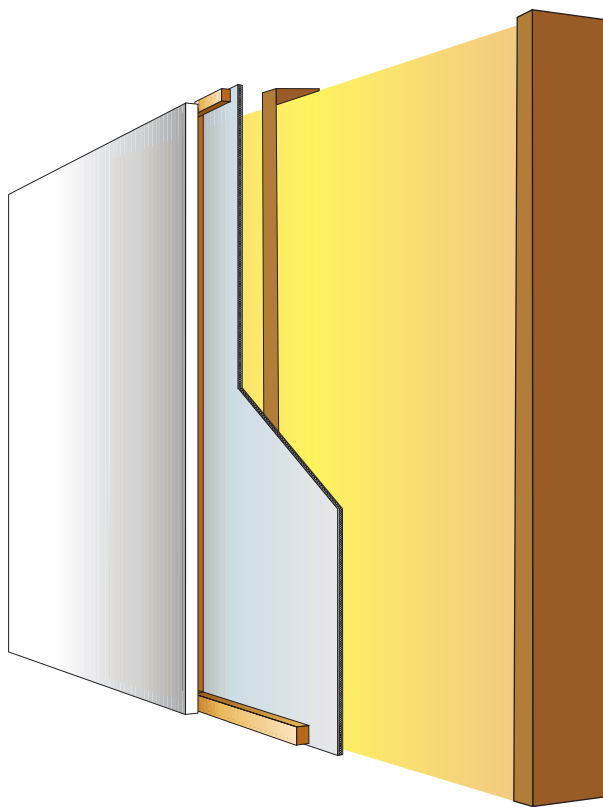
The first Aluthermo® REVERSO tape is laid parallel to the ridge. This tape is fixed to the ridge purlin with an overlap of 10 cm. The Aluthermo® REVERSO is properly spread out and fastened to the purlins and rafters with staples every maximum 20 cm.



The subsequent Aluthermo® REVERSO tapes are positioned so that they form an overlap of at least 10 cm with the previous tapes. These overlaps are sealed with the aluminium adhesive tape we provide. The lower side of the last Aluthermo® REVERSO tape is fixed to the purlin head and stapled to it every 5 cm. The battens are then attached to the rafters to support the final surface cladding (wood cladding, plasterboard, etc.). These battens will compress the Aluthermo® REVERSO at the purlins to ensure an optimal peripheral seal and create an airtight envelope.

1.3. INSTALLATION ON WALLS, CEILINGS, AND FLOORS

1.3.1. INTERIOR WALL INSULATION



The Aluthermo® REVERSO can be laid horizontally or vertically and should form a minimum overlap of 10 cm on the rafters. The overlaps and joints should be sealed with the 100 mm wide aluminium adhesive tape we provide. The Aluthermo® is temporarily fixed to the battens with staples. Battens with a minimum thickness of 40 mm are then attached. The final surface cladding (plasterboard, wood cladding, etc.) is then attached to these battens. It is important to ensure optimal peripheral sealing to create an airtight envelope.



EFFECTIVE. THIN. EASY TO INSTALL.

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