

Aluthermo®

INSTALLATION INSTRUCTIONS



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1. APPLICATIONS

	Aluthermo Optima
Roof from inside	●
Interior walls	●
Under floorboards with air gaps	●
Industrial buildings	●
Supplementary insulation by vapour barrier	●

Other application(s): please contact Aluthermo S.A.

2. INSTALLATION METHODS

2.1. GENERAL

2.1.1. WATERPROOFING AND AIRTIGHTNESS

To reduce convection losses to a minimum, it is absolutely essential for the insulation to form a closed system that is sealed to the air outside the building.

This criterion is easily satisfied with Aluthermo®.

Aluthermo® is laid over the full surface of the construction. The edges of the successive strips of Aluthermo® are overlapped over a width of 5 to 10 cm and sealed by means of Aluthermo aluminium adhesive tape, with a width of 75 to 100 mm depending on the application.

The Aluthermo® insulation can be cut at any point.

A normal cutter is sufficient for cutting the insulation.

ALUTHERMO® ADHESIVE

Aluthermo®	Recommended width of Aluthermo® adhesive tape
Aluthermo Quattro	100 mm
Aluthermo Optima	100 mm
Aluthermo® 21 mm	100 mm
Aluthermo® 7 mm	100 mm
Aluphonic	100 mm

The 70 µm thickness of aluminium on this special adhesive tape also guarantees optimal reflection at the cutting points.

To guarantee perfect adhesion, the surfaces must be free of dust and moisture, and after applying the adhesive, the bonded area must be wiped with a dry cloth.

2.1.2. PRESERVING THE AIR GAP

To bring out the full insulating potential of Aluthermo® in protecting against energy exchange by radiation, we recommend that you preserve an **air gap of at least 2 cm** on both sides of the Aluthermo®. To maximise the soundproofing effect, **Aluthermo must be stretched out tight** to prevent any point of contact with adjacent surfaces.

! For the installation of the Aluthermo Quattro®, Aluphonic, 21 mm or 7 mm, there are therefore required counter-battens with a thickness of minimum 24 mm.

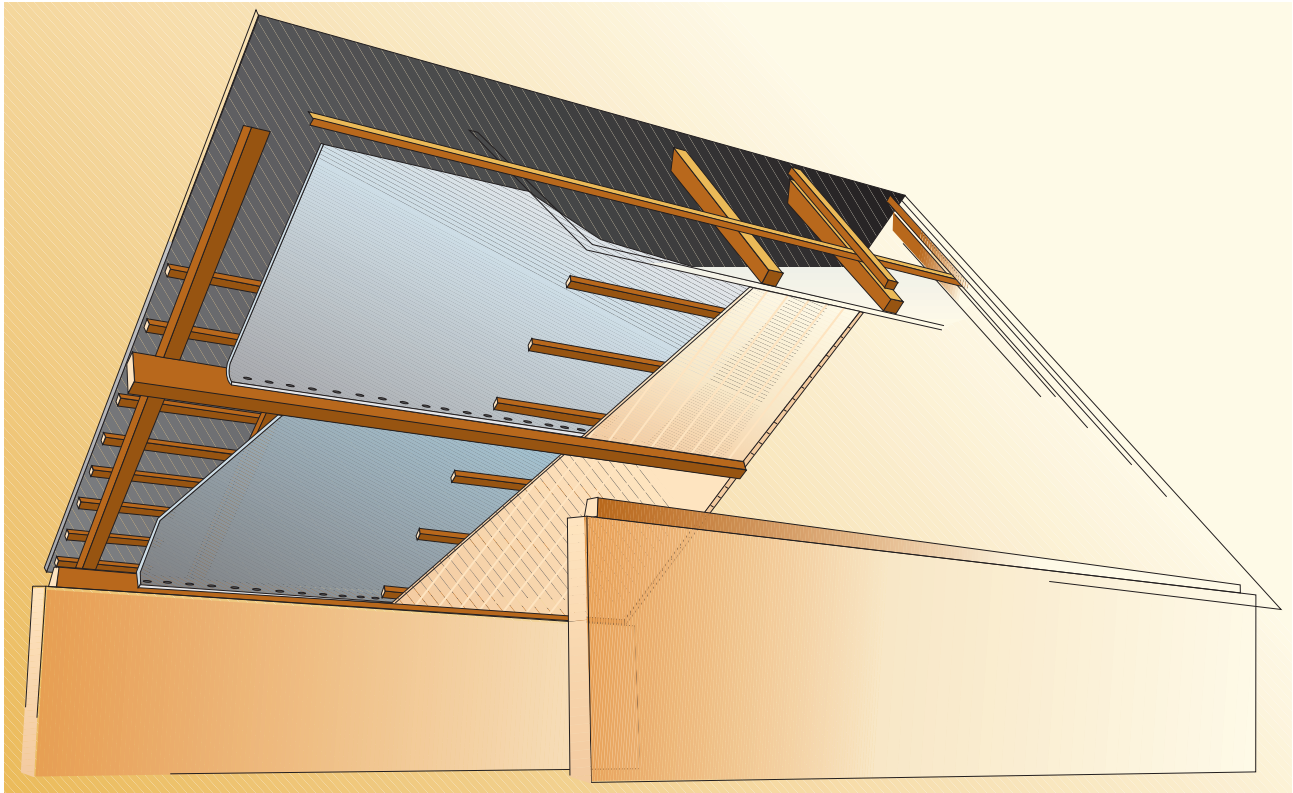
! For the installation of the Aluthermo Optima®, which is thicker, there are required counter-battens with a thickness of minimum 40 mm.

2.1.3. CRUSHING

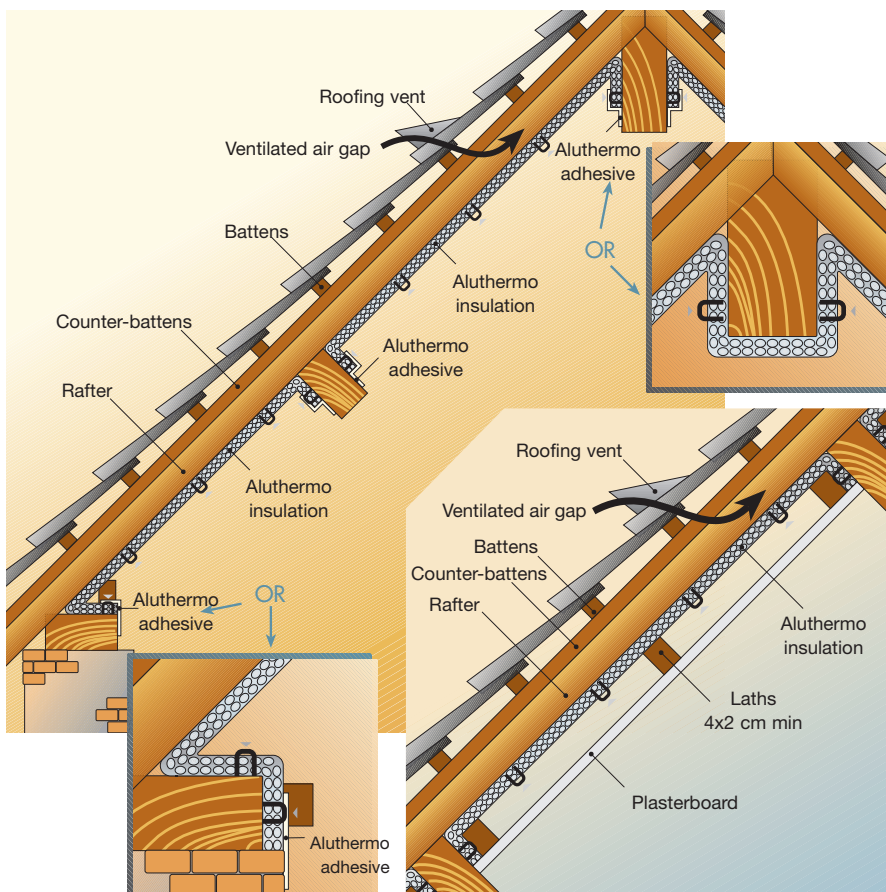
In response to the problem of crushing of the insulation material by roof battens, for example over the rafters, purlins etc., Aluthermo® prevents thermal bridging by ensuring compensation between the timber and the honeycombed air bubbles.

2.2. INSTALLATION AS ROOF INSULATION

2.2.1. ROOF INSULATION FROM INTERIOR



The first sheet of Aluthermo® must be unrolled parallel to the ridge and fastened to the ridge board, with a 5 cm turn-down. Then stretch out the Aluthermo® correctly and staple it to the purlins and rafters, with a maximum spacing of 20 cm between staples.



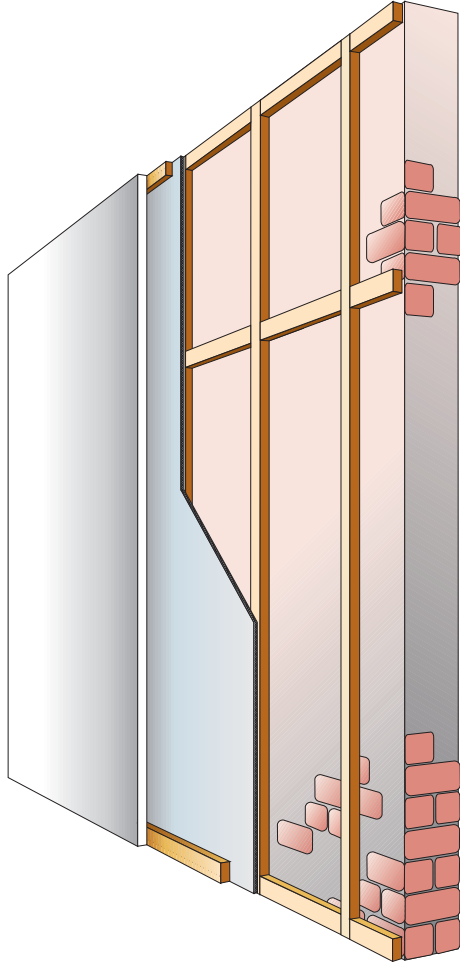
Position the next sheets of Aluthermo® with a minimum overlap of 5 cm to the previous sheet. Seal these overlaps with the special aluminium adhesive tape supplied by Aluthermo®.

Fasten the bottom edge of the last strip of Aluthermo® to the wall plate by means of staples spaced at 5 cm intervals.

Then fasten the laths for the final finish (wood panelling, plasterboard etc.) to the rafters. These laths will press the Aluthermo® against the purlins.

2.3. INSTALLATION ON WALLS, CEILINGS, AND FLOORS

2.3.1. INTERIOR WALL INSULATION



Aluthermo® can be unrolled and installed horizontally or vertically, ensuring a minimum overlap of 5 cm between strips, on a framework of laths measuring 40 mm thick by 50 mm wide previously fixed to the wall to be insulated.

Seal the overlaps and joins with the special aluminium adhesive tape supplied by Aluthermo®.

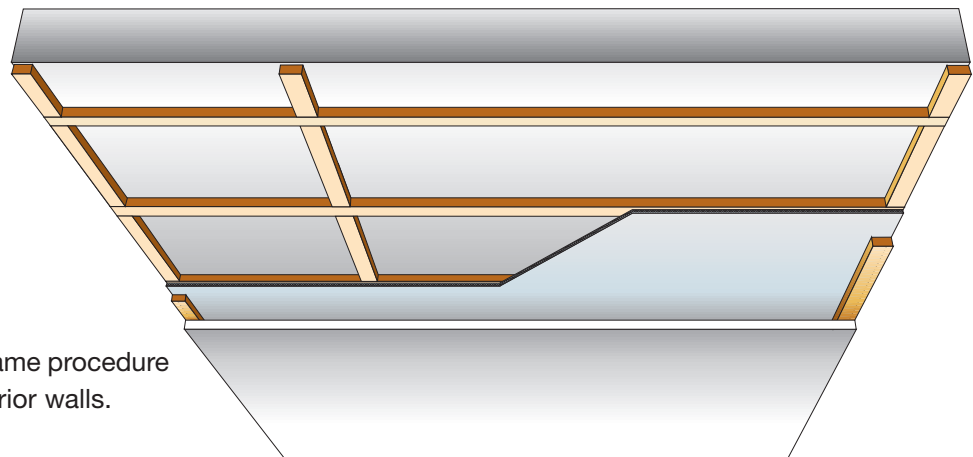
Provisionally fasten the Aluthermo® insulation by stapling it to this wooden framework.

The vertical laths of the framework must be spaced at approximately 60 cm. The perimeter laths must be positioned flush with the horizontal and vertical limits of the surface to be insulated.

This framework thereby establishes a stable air gap between the Aluthermo® insulation and the insulated wall.

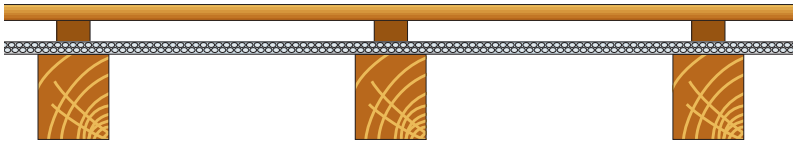
Then fasten the counter-laths to the framework for the interior finish (plasterboard, wood panelling etc.).

2.3.2. CONCRETE CEILING INSULATION



Use the same procedure as for interior walls.

2.3.3. INSTALLATION UNDER FLOORBOARDS WITH AIR GAPS



Unroll and staple the Aluthermo® insulation to the timber framework, sealing the overlaps with the aluminium adhesive tape supplied by Aluthermo®.

Then screw laths measuring a minimum of 4 cm thick by 5 cm wide to the wooden floor beams.

Fasten the wood or particle board flooring to these laths.

If the wood floor is laid on concrete slab instead of on a timber framework, the insulation must be laid out and stapled to laths spaced at a maximum of 60 cm, previously fixed to the concrete, sealing the overlaps between successive strips with the aluminium adhesive tape supplied by Aluthermo®.

Then screw laths measuring a minimum 3 cm thick by 5 cm wide to the base laths.

The wood or particle board floor can then be fixed to these top laths.

This list of applications is not exhaustive.
For example, Aluthermo® is also used in
several industrial applications.

For these applications and for any additional
ques-tions, our technical sales team will be
glad to help.

Please do not hesitate to contact us.



EFFECTIVE. THIN. EASY TO INSTALL.

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