

Aluthermo® - Technical data sheet

QUATTRO

The "All-in-one" solution to insulate with a minimum loss of space. Efficient and easy to install.

HOW DOES IT WORK?

QUATTRO is a semi-rigid complex composed of the following successive layers:

- 1 a film of pure aluminium, 30 microns thick, treated against oxidation
- 2 a layer of bubbles of dry air enclosed in self-extinguishing polyethylene
- 3 a film of pure aluminium treated against oxidation
- 4 a layer of small aircells enclosed in self-extinguishing polyethylene
- 5 a film of pure aluminium treated against oxidation
- 6 a layer of bubbles of dry air enclosed in self-extinguishing polyethylene
- 7 a film of pure aluminium, 30 microns thick, treated against oxidation

The air trapped in the bubble film and polyethylene is dry and stable.

TECHNICAL CHARACTERISTICS

Dimensions of the roll	1,20 x 25 m or 1,20 x 6,25 m
Surface area per roll	30 m ² or 7,5 m ²
Weight	± 750 g/m ²
Thickness	± 10 mm
Operating temperature range	-55°C to +80°C
Fire resistance classification	Bs1d0
Equivalent thermal resistance	See study WLik : www.aluthermo.com (*)
Thermal performance	Up to 13% more effective than 200 mm of mineral wool (*)(**)
Acoustic attenuation in combination with a plasterboard	Rw (C; Ctr) = 35 (-2; -7) dB
Impact noise attenuation	ΔLw = 22 dB
Permissible load with 10% deformation	543 kg/m ²
Permissible load with 20% deformation	1232 kg/m ²
Bursting resistance	2423 kg/m ²
Sd value	> 6000 m
Number of the aluminium films	4
Thickness of the outer aluminium film	30 microns
Emissivity	< 0,05 (EN ISO 22097)

(*) Performance data only valid for the installation between 2 air gaps without direct contact (see installation instructions of the product).

(**) Thermal performance measured by the Eliosys laboratory, comparing the energy consumption of a structure insulated once with Aluthermo and once with 200 mm of mineral wool (λ 0.040 W/m.K). In the absence of consensus on the standard, this result is not considered in the calculation of the EPC or the obtaining of a subsidy. See the Eliosys test report on www.aluthermo.com.



APPLICATIONS



- On the roof, from the outside
- On the roof, from the inside
- On the walls as cladding
- On the walls from the inside
- For floors

ADVANTAGES

- Multi-reflective and multi-layer
- Easy to install as it is thermally-welded across its entire surface
- Durable as pure aluminium
- Fire protection class Bs1d0
- Roof membrane, insulation material and vapour barrier all in one
- No shrinkage and rotproof

