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 foam of fire-retarding and waterproofed 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 foam 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 m² or 7.5 m²
Weight: ± 750 g/m²
Thickness: ± 10 mm
Operating temperature range: -55°C to +80°C
Fire resistance classification: Bsl0
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/m²
Permissible load with 20% deformation: 1232 kg/m²
Bursting resistance: 2423 kg/m²
Sd value: > 6000 m
Number of the aluminium films: 4
Thickness of the outer aluminium film: 30 microns
Emissivity: < 0.05 (EN 16012)

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 Bsl0
- Roof membrane, insulation material and vapour barrier all in one
- No shrinkage and rotproof

(*) 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.