

ALUTHERMO QUATTRO



THE THERMAL SHIELD

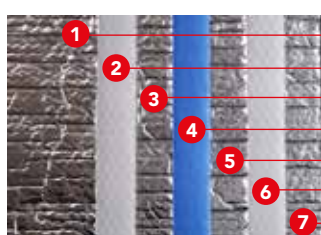
ALUTHERMO QUATTRO

Aluthermo Quattro® is the first thin, multi-reflector, multi-layer insulation system with all surfaces fully thermally welded together. Aluthermo Quattro® is composed of two layers of pure aluminium 30 microns thick, polished and treated against oxidation, separated by two layers of air bubbles placed in a honeycomb structure and enclosed in a fire-retarding polyethylene film, as well as two additional films of pure aluminium and a waterproof and fire-retardant polyethylene foam. Aluthermo Quattro® constitutes an almost impenetrable barrier for infrared radiation in both summer and winter.

HOW ALUTHERMO QUATTRO WORKS

The air enclosed in the bubble films and polyethylene foam is dry and stable. Condensation is therefore avoided in the recommended temperature range for Aluthermo Quattro®.

The semi-rigid complex is composed of successive layers as follows:



- 1 A film of pure aluminium, 30 microns thick, treated against oxidation
- 2 A layer of bubbles of dry air enclosed in fire-retardant 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 fire-retardant polyethylene
- 7 A film of pure aluminium, 30 microns thick, treated against oxidation

TECHNICAL CHARACTERISTICS

Thickness	+/-10 mm
Diameter of bubbles	10 mm
Height of bubbles	4 mm
Thickness of polyethylene film	150 microns
Number of aluminium films	4
Thickness of polyethylene foam	3 mm
Thickness of outer aluminium film	30 microns
Dimensions of 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
Permissible load with 10% deformation	543 kg/m ²
Permissible load with 20% deformation	1232 kg/m ²
Bursting resistance	2423 kg/m ²
Equivalent thermal resistance	See study WLiK
Acoustic attenuation	Rw (C; Ctr) = 35 (-2; -7) dB
Impact noise attenuation	ΔLw = 22dB
Operating temperature range	-55° to +80°C
Fire resistance classification	Bs1d0
Thermal performance	See study Eliosys and CIM



10 year guarantee in association with the Allianz Group

