

# Aluthermo® - Technical data sheet

# ALUPHONIC

## HOW DOES IT WORK?

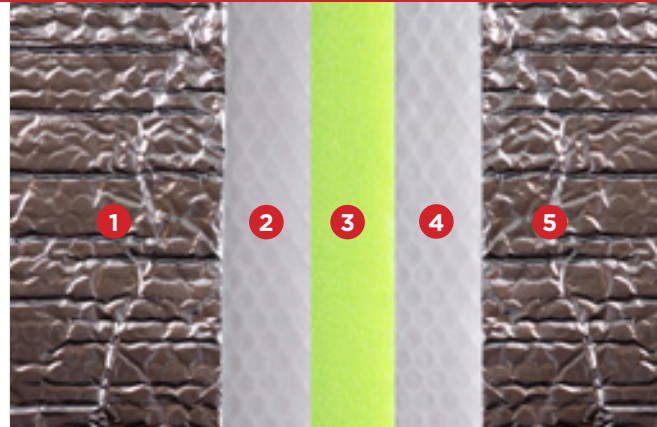
ALUPHONIC® is composed of the following successive layers:

- 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 foam of self-extinguishing and waterproofed polyethylene.
- 4 A layer of bubbles of dry air enclosed in self-extinguishing polyethylene.
- 5 A film of pure aluminium, 30 microns thick, treated against oxidation.

ALUPHONIC® is a thin, multi-reflector insulation 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 self-extinguishing polyethylene film and a self-extinguishing and waterproof polyethylene foam. The various layer are thermally welded across its entire surface.

## TECHNICAL CHARACTERISTICS

Dimension of the roll	1,20 x 20 m
Surface area of the roll	24 m <sup>2</sup>
Weight	± 670 g/m <sup>2</sup>
Thickness	± 10 mm
Operating temperature range	-40°C tot +80°C
Fire resistance classification	A1
Thermal resistance of the product on his own	$R_D = 0,26 \text{ m}^2\text{K/W}$ (EN ISO 22097)
Declared thermal resistance, installed between two air layers under horizontal heat flow	$R = 1,52 \text{ m}^2\text{K/W}$ (EN ISO 22097)
Emissivity	0,05
Number of aluminium films	2
Diameter of the bubbles	10 mm
Height of the bubbles	4 mm
Thickness of the polyethylene film	150 micron
Thickness of the polyethylene foam	3 mm
Thickness of the outer aluminium film	30 micron



## APPLICATIONS



- On the roof, from the outside
- On the roof, from the inside
- On the walls, from the outside
- On the walls, from the inside
- For floors
- Industrial buildings

## ADVANTAGES

- Easy to install as it is thermally-welded across its entire surface
- No shrinkage and rotproof
- Durable as pure aluminium
- 10-year warranty in association with Allianz Insurances

