

Aluthermo® - Technical data sheet

ROOFREFLEX®

The breather membrane, that improves my insulation, my EPC and my comfort in summer.

HOW DOES IT WORK?

ROOFREFLEX® is composed of the following layers:

- 1 a reflective and highly vapour permeable membrane
- 2 a 37 mm thick, compressive layer of moisture-proof polyester fiber with a thermal conductivity of λ 0,0366 W/(m.K)

This insulation material improves the roof's overall thermal resistance by combining its many qualities with those of the insulation material installed between the rafters.

Its impermeability significantly limits the penetration of cold air in winter, reduces thermal bridges and reduces the risk of condensation. Its insulating layer of polyester wadding reduces energy loss and increases acoustic protection.

Finally, the reflective power of this insulating roof membrane provides considerable protection against the sun's rays and significantly improves comfort by reducing the risk of overheating in summer.

TECHNICAL CHARACTERISTICS

Dimensions of the roll	1,40 x 10 m
Surface area per roll	14 m ²
Weight	± 730 g/m ²
Thickness of the flexible polyester fiber	± 37 mm
Operating temperature range	-40°C to +80°C
Fire resistance classification	E (EN 13501-1)
Thermal core resistance	R = 1,00 m ² .K/W
Thermal resistance with one unventilated air layer - horizontal heat flow	R = 1,47 m ² .K/W
Thermal conductivity	λ = 0,0366 W/(m.K) (EN 12667)
Emissivity	0,19
Resistance to water penetration	Tight W1 (EN 1928)
Water vapour transmission properties	380 g/m ² .d
Tensile strength:	
in longitudinal direction	220 to 360 N/50 mm (EN 12311-1)
in transverse direction	150 to 275 N/50mm (EN 12311-1)
Tear resistance:	
in longitudinal direction	120 to 230 N (EN 12310-1)
in transverse direction	175 to 280 N (EN 12310-1)
Elongation:	
in longitudinal direction	55 to 100 % (EN 12311-1)
in transverse direction	70 to 150 % (EN 12311-1)
Sd value	0,061 m (± 0,01) (EN 12572)
Vapour resistance external layer	0,25 MNs/g
Vapour resistance insulation layer	0,05 MNs/g
Vapour resistance Roofreflex	0,3 MNs/g



APPLICATIONS



- On the roof, from the outside
- On the walls as cladding

ADVANTAGES

- PEB Certified
- A breathing, reflective, insulating roof membrane
- Improves the thermal and acoustic performance without modifying the structure
- Reduces thermal bridges
- Improves comfort by reducing overheating in summer
- Self-adhesive overlap included

