POLYREFLEX®

BIG

TECHNICAL DATA SHEET



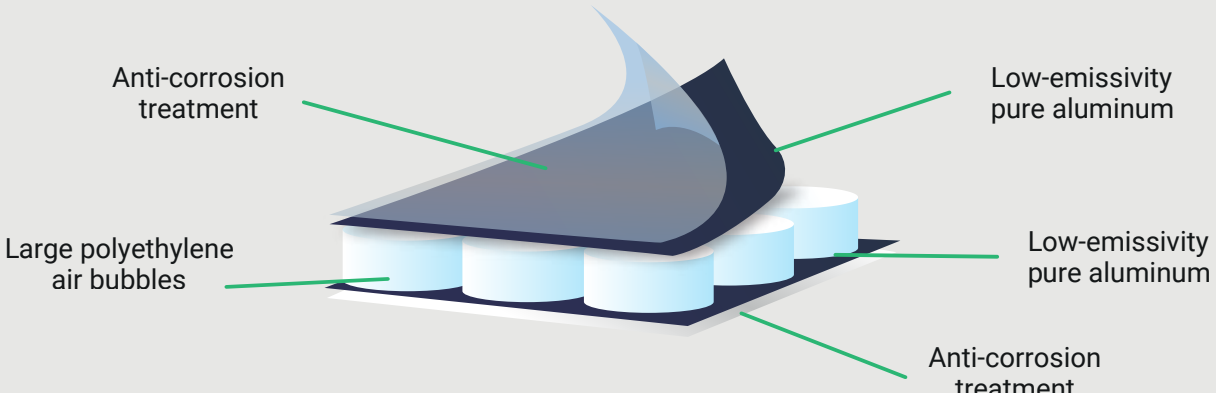
Dimensions:
18m²(1,20x15m)

Weight: 255g/ m²

Thickness
8 mm
3 layers in total

THERMAL RESISTANCE (R)

Roofs	Walls and façades	Also applicable for
R = 2,50 m².K/W	**R = 1,54 m².K/W**	**ceilings and roofs**
2 air chambers of 4 cm	2 air chambers of 2 cm	



TECHNICAL DATA

Emissivity: 0.05/0.05 (ETA/ETE 13-0525) (UNE-EN 16863:2024)
Reflectivity: 95% (UNE-EN ISO 22097:2023)
Core thermal resistance: 0,22 (ETA/ETE 13-0525) (UNE-EN 16863:2024)
Thermal resistance in roofs: 2,50 (with two 4 cm air chambers) (UNE-EN ISO 6946:2021)
Thermal resistance in ceilings: 1,36 (with an 4 cm air chamber) (UNE-EN ISO 6946:2021)
Thermal resistance in walls: 1,54 (with two 2 cm air chambers) (UNE-EN ISO 6946:2021)
Aluminum purity: 99%
Includes a vapor barrier
Resistant to water vapor diffusion (ETA/ETE 13-0525) (UNE-EN ISO 22097:2023)
Fire classification: Class B-s1, d0 (within a system) / Euroclass F (EN 13501-1:2002) (exposed)
Estimated service life: 25 years

"The product must always be installed within sealed air cavities to ensure its thermal performance. It is recommended to seal all joints and seams using Polyfix or Alufix sealing tape. We accept no liability if expected results are not achieved due to improper or inadequate installation.

COMPOSITION

Multilayer reflective thermal insulation composed of two outer layers of lacquered pure aluminum and a large internal polyethylene bubble layer.

Thermally welded across its entire surface, ensuring a continuous bond between its layers.

APPLICATIONS

Walls and façades **(vertical installation on the interior or exterior)**.
Roofs and ceiling systems **(horizontal and/or inclined installation on the interior or exterior)**.
Partition walls and subdivisions shared with neighboring properties.
Suitable for any type of construction, whether new builds or renovations, creating airtight air chambers on both sides of the insulation.

Traditional construction, Steel Frame systems, wooden houses, modular or industrialized construction.



SOME OF ITS ADVANTAGES

- Interrupts heat transfer through radiation and conduction.
- Longitudinally welded product to ensure airtight internal air chambers and prevent dust, moisture, fibers, insects, fungi, bacteria, and mold growth from entering.
- Interior aluminum protected to maintain low emissivity throughout its service life and ensure insulation continuity.
- Easy and quick to install and use

8 mm (+ air chambers)	59 mm	54 mm	55 mm	62 mm
POLYREFLEX BIG	Expanded Polystyrene (EPS)	Extruded Polystyrene (XPS)	Mineral Wool	Glass Fiber

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