ULTRA
TECHNICAL DATA SHEET



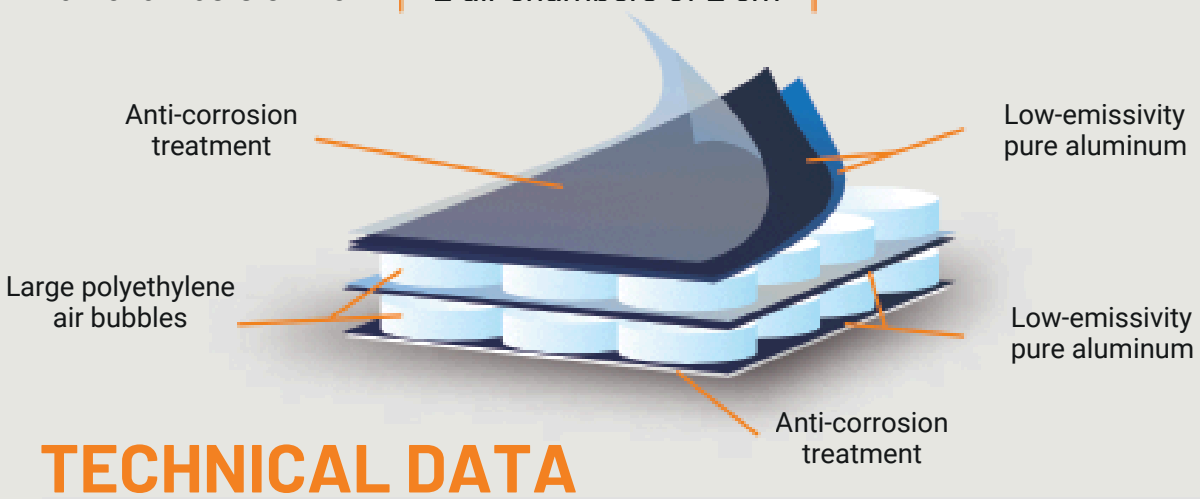
Dimensions:
24m²(1,20x20m)

Weight: 350g/ m²

Thickness
16mm
7 layers
in total

THERMAL RESISTANCE (R)

Roofs	Walls and façades	Also applicable for
R = 2,71 m².K/W	**R = 1,75 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: 0,43 (ETA/ETE 13-0525) (UNE-EN 16863:2024)
Thermal resistance in roofs: 2,71 (with two 4 cm air chamber) (UNE-EN ISO 6946:2021)
Thermal resistance in ceilings: 1,57 (with one 4 cm air chamber) (UNE-EN ISO 6946:2021)
Thermal resistance in walls: 1,75 (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 (exposed) according to EN 13501-1:2002
Estimated service life: 25 years

It is important to always install the product within air cavities to ensure its performance characteristics. It is recommended to seal joints and connections using Polyfix or Alufix sealing tape. We assume no responsibility if expected results are not achieved due to incorrect or unsuitable installation.

COMPOSITION

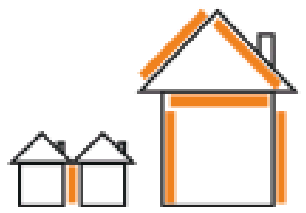
Reflective thermal insulation, composed of two layers of pure lacquered aluminum, two internal layers of large polyethylene air bubbles (8 mm), and an aluminum reflective film between the bubbles.

Longitudinally heat-sealed, without seams or intermediate welds.

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.
Recommended for use in air chambers in both interior and exterior applications.

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



SOME OF ITS ADVANTAGES

- Reduces heat flow through conduction and radiation.
- Longitudinal heat-sealed product to ensure airtightness of the air chambers and prevent the entry of humidity into the fibers, avoiding the spread moisture ingress into the material's internal air chambers.
- Protected exterior aluminum to guarantee low emissivity throughout the product's lifetime and maintain insulation performance.
- Easy and quick to install and use.

16 mm (+ air chambers)	=	67 mm	61 mm	63 mm	70 mm
POLYREFLEX ULTRA		Expanded Polystyrene (EPS)	Extruded Polystyrene (XPS)	Mineral Wool	Glass Fiber

Optimer System
Plata Street # 47, 28890 Loeches (Madrid). Spain Tel: (+34) 918 880 738
Phone and WhatsApp: (+34) 663 668 071 | Mail: comercial@optimersystem.com | **www.optimersystem.com**