DECLARATION OF PERFORMANCE

According to Regulation (EU) 2011/3110 (DoP by Regulation EU 305/2011)

Optimer System, S.A.

Version N° 1

Version date: 13/05/2025

1. Product

POLYREFLEX RPT

DOP reference number:

PR-RPT

Reflective thermal insulation for applications in slabs of residential and industrial buildings.

Composed of an external layer of fiberglass mesh, a layer of polyethylene air bubbles, and two layers of low-emissivity pure aluminum.

From the POLYREFLEX product family, RPT features two external layers of aluminum with a minimum purity of 99%, polyethylene bubbles thermally welded across the entire surface, and reinforcement with a fiberglass mesh. The product has a thickness of 4 mm.

Dimensions: 0.60 m x 2 m x 4 mm thickness

Estimated service life of the system is 25 years in accordance with EAD 040007-00-1201, provided that packaging, transport, storage, installation, maintenance, and repair conditions are maintained.

POLYREFLEX® RPT is a reflective thermal insulation that enhances thermal resistance at thermal bridge breaks present in floor slabs, providing a high level of insulation with minimal thickness. The thermal resistance and improved performance of these products are mainly due to their installation along the edge of the slab using contact adhesive or mechanical fastening, with the aluminum facing the slab edge. The blue mesh allows brick units to bond together without sagging or falling, while also providing insulation, blocking water vapor transmission, and preventing drafts from entering the interior from outside. It is not suitable for rendering or plastering, including single-coat systems.

2. General Safety Information

Environmental Product Declaration (EPD): Under certification process in accordance with standard UNE-EN 15804. Once available, it will be accessible on the manufacturer's digital platform and in official EPD registries.

Hazardous substances: The product does not contain hazardous substances according to REACH Regulation (EC) 1907/2006 and Amendment 2023/1230/EU.

It has a corrosion resistance of 96 hours (NSF Test), indicating that it is able to pass the test.

The reaction to fire is Class F when exposed outdoors, but once it's installed for its use and protected by building envelopes, it reaches class B-s1, d0.

Gloves and protective glasses must be used when cutting and handling the material. Although not being toxic nor irritant, it is recommended to have proper ventilation during the installation.

In all cases, users must comply with all national regulations, particularly regarding fire, air resistance, condensation risk, and construction durability. Product suitability is subject to the following installation conditions:

- Installation must be performed via authorized companies by the manufacturer or its representative, and therefore under their technical guidance.
- Installation must comply with the manufacturer's specifications.

Constructive elements incorporating the reflective product must be designed and executed in a way to eliminate condensation risk on the reflective surface. Interstitial condensation calculations should be done according to EN 13788 standard.

3. Manufacturer

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4. Authorized Representative (If applicable)

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6. Certificates Issued

According to European Commission Decision 1999/91/EC of January 25, 1999, on Conformity Certification Procedures, System 3 has been established for this type of thermal insulation product:

Product	Specific Use	Level/Class	System
POLYREFLEX®	Thermal insulation for buildings with low heat emissivity components	Any	3

7. Technical Reference Documentation

Applied European Assessment Document (EAD) No. 040007-00-1201 for “Thermal insulation for buildings with low heat emissivity components” under Regulation (EU) No. 305/2011 and European Technical Assessment issued: Technical Assessment Body (TAB) 1219, ETA 13 / 0525 dated 10/04/2025.

8. Declared Performance and Sustainability Characteristics

Essential Characteristics	Performance
Dimensions	0.60 m x 2 m x 4 mm
Weight	304 g/m^2
Emissivity	0.05 (ETA/ETE 13-0525) (UNE-EN 16863:2024)
Reflectivity	88% (ETA/ETE 13-0525) (UNE-EN 16863:2024)
Core thermal resistance (m^{2}K/W)	0.11 (ETA/ETE 13-0525) (UNE-EN 16863:2024)
Improvement of impact noise level Lw	26 dB (ISO 10140, EN 717 – 2) (UNE-EN 16863:2024)
Airborne noise level Lw on site	69.4 dB (A) (ISO 140 – 7, EN 717 – 2) (UNE-EN 16863:2024)
Fire reaction	Class B-s1, d0 (after installation within a system) Euroclass F (EN 13501-1:2002) (Exposed)
Water vapor diffusion resistance	μ = 4500 (4 mm) (ETA/ETE 13-0525) (UNE-EN ISO 22097:2023)
Compressive strength at 10% relative deformation	14.5 kPa (UNE - EN 826:1996)
Cleaning with high-pressure water	80 bars. Maximum (UNE-EN 16863:2024)
Usage temperature	-20°C to +100°C (UNE-EN 16863:2024)
Barrier to natural radioactivity	Radon barrier (UNE-EN 16863:2024)
Corrosion resistance	96 hours (NSS). Passes (ETA/ETE 13-0525) (UNE-EN ISO 22097:2023)
Dimensional stability (δ%)	w: - 0.25 l: -0.25 t: -1.5 (ETA/ETE 13-0525) (UNE-EN ISO 22097:2023)
Thickness	8 mm (Polyethylene air bubbles + Aluminized PET + Polyethilene Foam)
Format	Strip

- Environmental Product Declaration (EPD): Under certification process according to UNE-EN 15804. Once available, it can be consulted on the manufacturer's digital platform and in recognized official environmental declaration registries.

- Hazardous substances: The product does not contain hazardous substances as per REACH Regulation (EC) 1907/2006 and amendment 2023/1230/EU.

9. Declaration

The product complies with the declared performances and is in conformity with Regulation (EU) 305/2011, adapted by Regulation (EU) 2011/3110. The manufacturer assumes full responsibility for the conformity of the product with the declaration of performance.



Rufino López Muñoz

Position: CEO of Optimer System, S.A.

Date: 13/05/2025

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