Optimer System, S.A.

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 PLUS F

DOP reference number:

PR-RPT PLUS F

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

Composed of a low-emissivity aluminum foil, a layer of polyethylene air bubbles, and a layer of polyethylene foam protected by a fiberglass mesh.

From the POLYREFLEX product family, RPT PLUS F is a multilayer reflective thermal insulation composed of an internal reflective sheet of 100% pure lacquered and protected low-emissivity aluminum, and a double outer layer of polyethylene air bubbles and 5 mm anthracite polyethylene foam, stitched to a fiberglass mesh.

Dimensions: 0.60 m x 2 m x 8 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 PLUS F 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

OPTIMER SYSTEM, S.A.

C/ Plata, 47

28890 Loeches, Madrid, España.

Tel: +34 918 880 738

Email: comercial@optimersystem.com

www.optimersystem.com

4. Authorized Representative (If applicable)

OPTIMER SYSTEM, S.A.

C/ Plata 47

28890 Loeches, Madrid, España.

Tel: +34 918 880 738

Email: comercial@optimersystem.com

www.optimersystem.com

5. Technical Assesment Body

Institute of Construction Sciences Eduardo Torroja

NIF: Q2818002D

C/ Serrano Galvache n. 4.

28033 Madrid (Spain)

Tel.: (34) 91 302 04 40 / Fax: (34) 91 302 07 00

Email: direccion.ietcc@csic.es

www.ietcc.csic.es

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 8 mm
Weight	450 g/m^2
Emissivity	0.05 (ETA/ETE 13-0525) (UNE-EN 16863:2024)
Reflectivity	95% (UNE-EN 16863:2024)
Core thermal resistance over slab (m^{2}K/W)	1.35 (ETA/ETE 13-0525) (UNE-EN 16863:2024)
Improvement of impact noise level Lw	22 dB (ISO 10140, EN 717 – 2) (UNE-EN 16863:2024)
Tensile strength in Warp direction	150 daN/5 cm (UNE-EN 16863:2024)
Tensile strength in Weft direction	150 daN/5 cm (UNE-EN 16863:2024)
Elongation at break in the Warp direction	4,20% (UNE-EN 16863:2024)
Elongation at break in the Weft direction	3,80% (UNE-EN 16863:2024)
Fire reaction	Class B-s1, d0 (after installation within a system) Euroclass F (EN 13501-1:2002) (Exposed)
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 (Fiberglass mesh + Polyethylene foam + Aluminum layer + Polyethylene bubbles)
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

Plata street 47, 28890 Loeches – Madrid – España
Tel: +34 918 880 738 *Fax +34 918 814 989*
comercial@optimersystem.com
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