POLYREFLEX®

BLH B BIG

TECHNICAL SHEET



Dimensions:
24m²(1,20mx20m)

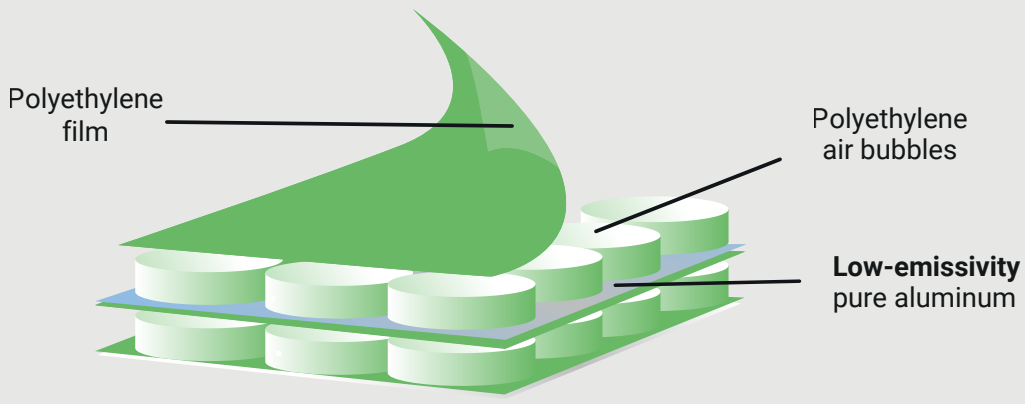
Weight: 1200g/m²

Thickness
16mm
3 layers
in total

THERMAL RESISTANCE (R)

Of the core:
0.40 m²·K/W (ETA/ETE 13-0525)

In slabs:
1.92 m²·K/W (*)



TECHNICAL DATA

Aluminum emissivity: 0.05 (ETA/ETE 13-0525) (UNE-EN 16863:2024)
Aluminum reflectivity: 0.95 (UNE-EN ISO 22097:2023)
Core thermal resistance: 0.40 m²·K/W (ETA/ETE 13-0525) (UNE-EN 16863:2024)
Estimated thermal resistance in floor and slab systems: 1.92 m²·K/W (*)
Impact sound insulation in slabs ΔLw: 34 dB (UNE-EN ISO 10140-3:2022 / UNE-EN ISO 10140-:2022)
Includes a radon gas 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

(*) Value obtained through theoretical estimation of thermal surface resistances in the underfloor heating layer based on the results according to UNE EN ISO 6946:2021. We disclaim responsibility if the expected results are not achieved due to improper or incorrect installation.

COMPOSITION

Multifunctional membrane that provides reflective thermal insulation, acoustic attenuation, and a vapor barrier with radon gas barrier properties. It is composed of two outer layers of large polyethylene bubbles (8 mm), thermally welded across their entire surface, at an internal layer of aluminum.

APPLICATIONS

- Insulation beneath structural floor slabs.
- Thermal insulation beneath compression layers and flat roofs.
- Auxiliary acoustic barrier and impact protection layer for flooring systems.
- Auxiliary protection against radon gas (within compatible systems).

SOME OF ITS ADVANTAGES

- Reduces heat transfer by both radiation and conduction.
- Thermally welded product across its entire surface and with interior aluminum to ensure airtightness and prevent dust, dirt, and moisture from entering the material's internal air chambers.
- Protected internal reflective foil maintains its low-emissivity properties and reduces radiant heat transfer.
- Quick and easy to install.
- Does not absorb water and will not degrade over time.
- Safe material; non-toxic and non-irritant.

ESTIMATED THEORETICAL THERMAL RESISTANCE WHEN COMBINED WITH OTHER FLOOR INSULATION MATERIALS

BLH B BIG + EPS 40 mm:
2,97 m²·K/W

BLH B BIG + Mineral Wool 40 mm:
3,03 m²·K/W

BLH B BIG + XPS 100 mm:
4,78 m²·K/W

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