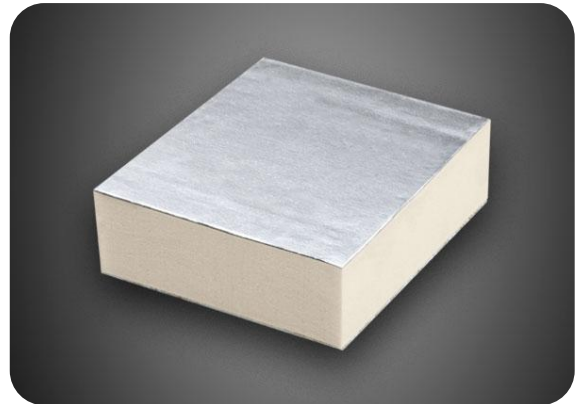




POLIISO EXTRA

THERMAL INSULATING PANEL MADE OF RIGID CLOSED CELL POLYISO (PIR) FOAM EXPANDED BETWEEN TWO MULTILAYER ALUMINUM SUPPORTS



POLIISO® EXTRA is a thermal insulation panel made up of a rigid closed-cell polyiso (expanded polyurethane) foam, yellow in colour, expanded without the use of CFC or HCFC between two multilayer aluminum supports. The panels declare λ_D values equal to 0.022 W/mK according to the European standard EN 13165, compressive strength values ≥ 150 kPa and are fire classified EUROCLASSE E according to the European standard EN 13501-1. The panels have standard dimensions of 600 x 1200 mm and are available in thicknesses from 20 to 160 mm. **POLIISO® EXTRA** complies with the Minimum Environmental Criteria (CAM).

APPLICATIONS WITH POLIISO® EXTRA: Cavity wall, residential floor, floor with heating system, inverted roof not practicable, metal deck, Inverted roof*

| CHARACTERISTIC | STANDARD | UNIT | VALUES |
|---|----------|-------------------|--|
| Thickness | EN 823 | mm | 20 - 160 |
| Thickness tolerance class (T2) Thickness < 50 mm Thickness da 50 mm a 75 mm Thickness > 75 mm | EN 823 | mm | T2 -2/+2 -3/+3 -3/+5 |
| Length | EN 822 | mm | 1200 |
| Width | EN 822 | mm | 600 |
| Length and width tolerance Dimension < 1000 mm Dimension from 1000 mm to 2000 mm Dimension from 2001 mm to 4000 mm Dimension > 4000 mm | EN 13165 | mm | -5/+5 -7,5/+7,5 -10/+10 -15/+15 |
| Tolleranza ortogonalità (S_b) | EN 824 | mm/m | 5 |
| Tolleranza planarità (S_{max}) | EN 824 | mm/m | |
| Density | | kg/m ³ | 36 +/- 10% |
| Specific heat | | J/kgK | 1500 |

| CHARACTERISTIC | STANDARD | UNIT | VALUES | |
|---|---------------|--|--------------------------------------|-------|
| Thermal conductivity (λ_D) and Thermal resistance (R_D) | | | λ_D | R_D |
| thickness 20 mm | EN 13165 | λ_D : W/mK RD: m ² K/W | 0,022 | 0,91 |
| thickness 30 mm | EN 13165 | λ_D : W/mK RD: m ² K/W | 0,022 | 1,36 |
| thickness 40 mm | EN 13165 | λ_D : W/mK RD: m ² K/W | 0,022 | 1,82 |
| thickness 50 mm | EN 13165 | λ_D : W/mK RD: m ² K/W | 0,022 | 2,27 |
| thickness 60 mm | EN 13165 | λ_D : W/mK RD: m ² K/W | 0,022 | 2,73 |
| thickness 80 mm | EN 13165 | λ_D : W/mK RD: m ² K/W | 0,022 | 3,64 |
| thickness 100 mm | EN 13165 | λ_D : W/mK RD: m ² K/W | 0,022 | 4,55 |
| thickness 120 mm | EN 13165 | λ_D : W/mK RD: m ² K/W | 0,022 | 5,45 |
| thickness 140 mm | EN 13165 | λ_D : W/mK RD: m ² K/W | 0,022 | 6,36 |
| thickness 160 mm | EN 13165 | λ_D : W/mK RD: m ² K/W | 0,022 | 7,27 |
| Compressive stress at 10 % deformation | EN 826 | kPa | $\geq 150 - CS(10/Y)150$ | |
| Compressive creoo after 50 years with crushing ≤ 2 % | EN 1606:2013 | kPa | $\geq 25 - CC(2/1,5/50)25$ | |
| Dimensional stability at 70\pm2 °C, 90\pm5% UR, 48\pm1 ore Changes in thickness Changes in length and width | EN 1604:2013 | % % | DS(70,90)4 ≤ 4 ≤ 1 | |
| Dimensional stability at -20\pm3 °C, 48\pm1 ore Changes in thickness Changes in length and width | EN 1604:2013 | % | DS(-20,-)2 ≤ 2 $\leq 0,5$ | |
| Water absorption by immersion (28 days) | EN 12087 | Vol % | $\leq 1 - WL(T)1$ | |
| Resistance to water vapor diffusion (μ) | EN 12086:2013 | | MU infinito | |
| Reaction to fire | EN 13501-1 | Euroclasse | E | |
| Limit temperature of use | | °C | - 40 / + 110 | |
| VOC (Volatile Organic Compounds) | | Class/Protocol | A+, Leed, Well, Bream [...] | |

*For proper installation, consult the technical department.

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