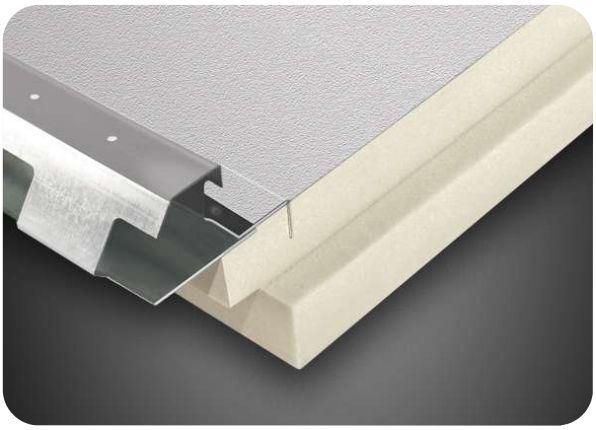
# POLIISO TEGOLA

THERMAL INSULATION PANEL MADE OF RIGID, CLOSED-CELL POLYISO FOAM (PIR), EXPANDED BETWEEN TWO EMBOSSED ALUMINIUM SUPPORTS



**POLIISO® TEGOLA** is a panel consisting of a rigid, closed-cell polyiso (polyisocyanurate) foam—yellow in color and manufactured without the use of CFCs or HCFCs—sandwiched between two layers of embossed aluminum. It complies with the harmonized product standard UNI EN 13165.
The **SISTEMA POLIISO TEGOLA** comprises the aforementioned PIR panel, featuring an integrated 42 mm-high metal batten (or rail) for supporting roof tiles, which is affixed to one of the panel's surfaces. This metal batten allows for the secure attachment of roof tiles while facilitating ventilation beneath the roof covering. Product certification CPDOC262 (CAM) is available for **POLIISO® TEGOLA**.

**APPLICATIONS WITH POLIISO® TILE: Roof with ventilation beneath the roof covering**

| PROPERTIES | STANDARD | UNITS OF MEASUREMENT | VALUES |
|---|---|---|---|
| **Thicknesses** | EN 823 | mm | 60 - 140 |
| **Thickness tolerance**<br>Thicknesses from 50 mm to 75 mm<br>Thicknesses > 75 mm | EN 823/<br>EN 13165 | mm | T2:<br>-3/+3<br>-3/+5 |
| **Length** | EN 822 | mm | 2400 |
| **Standard width** | EN 822 | mm | Steps from 315 to 485 |
| **Length and width tolerance**<br>Size < 1000 mm<br>Dimensions from 1000 mm to 2000 mm<br>Size from 2001 mm to 4000 mm<br>Size > 4000 mm | EN 13165<br>EN 822 | mm | -5/+5<br>-7,5/+7,5<br>-10/+10<br>-15/+15 |

| PROPERTIES | STANDARD | UNITS OF MEAS-UREMENT | VALUES |
|---|---|---|---|
| **Orthogonality tolerance (Sb)** | EN 824 /EN 13165 | mm/m | 5 |
| **Flatness tolerance (Smax) Length ≤ 2500 mm**<br>≤ area 0.75 m2<br>> area 0.75 m2 | EN 825 EN 13165 | <br>mm/m<br>mm/m | <br>≤ 5<br>≤ 10 |
| **Density** | | kg/m3 | 40 +/- 10% |
| **Specific heat** | | J/kgK | 1500 |

| | | | | |
|---|---|---|---|---|
| **Declared thermal conductivity (λD) and declared thermal resistance (RD)** | | | λd | Rd |
| Thickness 60 mm | EN 13165/EN 12667 | λD: W/mK - $R_D$: m2K/W | 0,022 | 2,73 |
| Thickness 80 mm | EN 13165/EN 12667 | λD: W/mK - $R_D$: m2K/W | 0,022 | 3,64 |
| Thickness 100 mm | EN 13165/EN 12667 | λD: W/mK - $R_D$: m2K/W | 0,022 | 4,55 |
| Thickness 120 mm | EN 13165/EN 12667 | λD: W/mK - $R_D$: m2K/W | 0,022 | 5,45 |
| Thickness 140 mm | EN 13165/EN 12667 | λD: W/mK - $R_D$: m2K/W | 0,022 | 6,36 |
| **Compressive strength at 10% strain due to load or break** | EN 826 | kPa | ≥ 150 – CS(10/Y)150 | |
| **Dimensional stability at 70±2°C, 90±5% RH, 48±1 hours**<br>Changes in thickness<br>Changes in length and width | EN 1604:2013 | <br>%<br>% | <br>SD(70,90)3<br>≤ 6<br>≤ 2 | |
| **Dimensional stability at -20±3 °C, 48±1 hours**<br>Changes in thickness<br>Changes in length and width | EN 1604:2013 | <br>%<br>% | <br>DS(-20,-)1<br>≤ 2<br>≤ 1 | |
| **Water absorption by immersion (28 days)** | EN 12087 | Vol % | ≤ 1 – WL(T)1 | |
| **Resistance to water vapour diffusion (μ)** | EN 12086:2013 | | MU ≈ 89.000 | |
| **Reaction to fire of the panel** | EN 13501-1 | Euroclass | D, s2 d0 | |
| **Temperature limit of use** | | °C | - 40 / + 110 | |
| **VOCs (Volatile Organic Compounds)** | EN 16516 / ISO 16000 | Class/Protocol | A+, Leed, Well, Breeam [...] | |

Notes:

-Thermal resistance values are not rounded down to the nearest 0.05 m²·K/W.

-Values in the technical data sheet are subject to change without notice.

-The metal batten does not fall within the scope of the EN 13165 standard.

-For technical data and information not covered in this technical data sheet, please write to ufficiotecnico@ediltec.com.

POLIISO® TEGOLA 10/2026 – 04.26