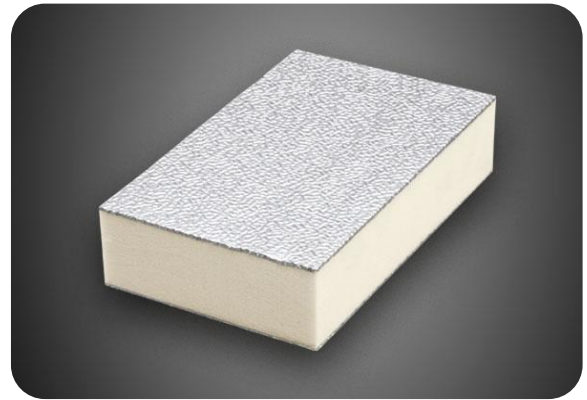




POLIISO AD

THERMAL INSULATING PANEL MADE OF RIGID CLOSED-CELL POLYISO (PIR) FOAM, EXPANDED BETWEEN TWO EMBOSSED ALUMINUM FACINGS



POLIISO® AD is a thermal insulation panel made of rigid, closed-cell polyiso (polyurethane foam), yellow in color, expanded without the use of CFCs or HCFCs between two embossed aluminum facings. The panels declare λD values of 0.022 W/mK according to the European standard EN 13165, compressive strength values ≥ 150 kPa, and are classified as Euroclass E fire performance according to the European standard EN 13501-1. The panels have standard dimensions of 600 × 1200 mm and are available in thicknesses from 20 to 160 mm. **POLIISO® AD** complies with the Minimum Environmental Criteria (CAM).

APPLICATIONS WITH POLIISO® AD:

Recommended: Cavity wall, residential floor, heated floor

Alternative: Impervious inverted roof, 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
Orthogonality tolerance (Sb)	EN 824	mm/m	5
Flatness tolerance (Smax) Length \leq 2500 mm \leq area 0.75 m ² > area 0.75 m ²	EN 824	mm	\leq 5 \leq 10

Density		kg/m ³	40 +/- 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	≥ 150 – CS(10/Y)150	
Compressive creoo after 50 years with crushing ≤ 2 %	EN 1606	kPa	≥ 25 – CC(2/1,5/50)25	
Dimensional stability at 70±2 °C, 90±5% UR, 48±1 ore Changes in thickness Changes in length and width	EN 1604	% %	DS(70,90)4 ≤ 4 ≤ 1	
Dimensional stability at -20±3 °C, 48±1 ore Changes in thickness Changes in length and width	EN 1604	%	DS(-20,-)2 ≤ 2 ≤ 0,5	
Water absorption by immersion (28 days)	EN 12087	Vol %	≤ 1 – WL(T)1	
Resistance to water vapor diffusion (μ)	EN 12086		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 [...]	

Thermal resistance values are not rounded.

The values in the technical data sheet are subject to change without notice.



