


# POLIISO® ED

Polyisocyanurate rigid foam (PIR) – Polyiso expanded foam between two glass substrates saturated mineralized

CHARACTERISTIC	STANDARD	UNIT	VALUES								
<b>DIMENSIONS</b>											
Thickness	EN 823	mm	30 - 160								
Thickness tolerance class (T2)	EN 823 EN 13165	mm	Thickness < 50 mm								
Thickness from 50 mm to 70 mm			-2 /+2								
Thickness > 70 mm			-3 /+3								
Length	EN 822	mm	1200								
Width	EN 822	mm	600								
<b>FINISHING</b>											
Straight edges											
<b>THERMAL CONDUCTIVITY AND THERMAL RESISTANCE</b>											
Declared thermal conductivity	EN 13165 EN 12667	W/mK	Thickness from 30 mm to 60 mm								
Thickness from 80 mm to 100 mm			0,028								
Thickness from 120 mm to 160 mm			0,026								
Declared thermal resistance (EN 13165)											
Thickness (mm):	30	40	50	60	70	80	90	100	120	140	160
Thermal resistance (m <sup>2</sup> K/W):	1,05	1,40	1,75	2,10	2,50	3,05	3,45	3,80	4,80	5,60	6,40
<b>COMPRESSIVE STRESS AT 10 % DEFORMATION - <math>\sigma_{10}</math></b>											
Thickness from 30 mm to 160 mm	EN 826	kPa	≥ 150								
<b>COMPRESSIVE CREEP AFTER 50 YEARS WITH CRUSHING <math>\leq 2\%</math> - <math>\sigma_2</math></b>											
Thickness from 30 mm to 160 mm	EN 1606	kPa	≥ 50								
<b>DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS</b>											
Condition test: (48 ± 1) hours, (70 ± 2)°C e (90 ± 5)% U.R.	EN 1604	%	Thickness change								
Change in length and width			≤ 4								
			≤ 1								
<b>DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE</b>											
Condition test: (48 ± 1) hours, (-20 ± 3)°C	EN 1604	%	Thickness change								
Change in length and width			≤ 2								
			≤ 0,5								
<b>LONG TERM WATER ABSORPTION BY TOTAL IMMERSION (28 DAYS)</b>											
Thickness from 30 mm to 160 mm	EN 12087	Vol. %	≤ 2								
<b>WATER VAPOUR DIFFUSION RESISTANCE FACTOR (<math>\mu</math>)</b>											
Thickness from 30 mm to 160 mm	EN 12086		30 - 50								
<b>REACTION TO FIRE</b>											
Reaction to fire	EN 13501-1	Euroclass	E								