


POLIISO® ED

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

CHARACTERISTIC	STANDARD	UNIT	VALUES								
DIMENSIONS											
Thickness	EN 29466	mm	30 - 160								
Thickness tolerance class (T2)	EN 29466 EN 13165	mm	Thickness < 50 mm -2 /+2								
Thickness from 50 mm to 70 mm			-3 /+3								
Thickness > 70 mm			-3 /+5								
Length	EN 29465	mm	1200								
Width	EN 29465	mm	600								
FINISHING											
Straight edges											
THERMAL CONDUCTIVITY AND THERMAL RESISTANCE											
Declared thermal conductivity	EN 13165 EN 12667	W/mK	Thickness from 30 mm to 40 mm 0,027								
Thickness from 50 mm to 90 mm			0,026								
Thickness from 100 mm to 160 mm			0,025								
Declared thermal resistance (EN 13165)											
Thickness (mm):	30	40	50	60	70	80	90	100	120	140	160
Thermal resistance (m ² K/W):	1,11	1,48	1,92	2,31	2,69	3,08	3,46	4,00	4,80	5,60	6,40
COMPRESSIVE STRESS AT 10 % DEFORMATION - σ_{10}											
Thickness from 30 mm to 160 mm	EN 29469	kPa	≥ 150								
COMPRESSIVE CREEP AFTER 50 YEARS WITH CRUSHING $\leq 2\%$ - σ_2											
Thickness from 30 mm to 160 mm	EN 1606	kPa	≥ 50								
DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS											
<u>Condition test: (48 ± 1) hours, (70 ± 2)°C e (90 ± 5)% U.R.</u>											
Thickness change	EN 1604	%	≤ 4								
Change in length and width			≤ 1								
DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE											
<u>Condition test: (48 ± 1) hours, (-20 ± 3)°C</u>											
Thickness change	EN 1604	%	≤ 2								
Change in length and width			≤ 0,5								
LONG TERM WATER ABSORPTION BY TOTAL IMMERSION (28 DAYS)											
Thickness from 30 mm to 160 mm	EN 16535	Vol. %	≤ 2								
WATER VAPOUR DIFFUSION RESISTANCE FACTOR (μ)											
Thickness from 30 mm to 160 mm	EN 12086		30 - 50								
REACTION TO FIRE											
Reaction to fire	EN 13501-1	Euroclass	E								