POLIISO® AD

Polyisocyanurate rigid foam (PIR) panels faced, both sides, with embossed aluminium 50 μm of thick

CHARACTERISTIC	STANDARD	UNIT	VALUES
DIMENSIONS			
Thickness	EN 823	mm	20 - 160
Thickness tolerance class (T2)			
Thickness < 50 mm	EN 823 EN 13165	mm	-2 /+2
Thickness from 50 mm to 70 mm			-3 /+3
Thickness > 70 mm			-3 /+5
Length	EN 822	mm	1200
Width	EN 822	mm	600
FINISHING			
Straight edges	☐		
THERMAL CONDUCTIVITY AND THERMAL RESISTANCE			
Declared thermal conductivity			
Thickness from 20 mm to 160 mm	EN 13165 EN 12667	W/mK	0,022

Declared thermal resistance (EN 13165)

Thickness (mm):	20	30	40	50	60	80	100	120	140	160
Thermal resistance (m^2K/W):	0,90	1,35	1,80	2,25	2,70	3,60	4,50	5,45	6,35	7,25

COMPRESSIVE STRESS AT 10 % DEFORMATION - σ_{10}			
Thickness from 20 mm to 160 mm	EN 826	kPa	≥ 150
COMPRESSIVE CREEP AFTER 50 YEARS WITH CRUSHING ≤ 2 % - σ_2			
Thickness from 20 mm to 160 mm	EN 1606	kPa	≥ 50
DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS			
Condition test: (48 ± 1) hours, (70 ± 2)°C e (90 ± 5)% U.R.			
Thickness change	EN 1604	%	≤ 4
Change in length and width			≤ 1
DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE			
Condition test: (48 ± 1) hours, (-20 ± 3)°C			
Thickness change	EN 1604	%	≤ 2
Change in length and width			≤ 0,5
LONG TERM WATER ABSORPTION BY TOTAL IMMERSION (28 DAYS)			
Thickness from 20 mm to 160 mm	EN 12087	Vol. %	≤ 1
WATER VAPOUR DIFFUSION RESISTANCE FACTOR (μ)			
Thickness from 20 mm to 160 mm	EN 12086		∞
REACTION TO FIRE			
Reaction to fire	EN 13501-1	Euroclass	E

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