


# POLIISO® SB

**THERMAL INSULATION PANEL MADE OF RIGID, CLOSED-CELL "PIR" FOAM, EXPANDED BETWEEN TWO SUPPORTS: THE TOP ONE IS MADE OF BITUMINIZED GLASS FIBER AND THE BOTTOM ONE OF SATURED GLASS FIBER**

PROPERTY	NORM	UNITS	VALUE
<b>DIMENSIONAL CHARACTERISTICS</b>			
Thickness	EN 823	mm	30 - 40 - 50 - 60 - 70 - 80 - 90 - 100 - 120
Thickness Tolerance (T2)	EN 823 EN 13165	mm	Thickness < 50mm
			Thickness from 50mm to 75mm
			Thickness > 75 mm
Length	EN 822	mm	1200
Width	EN 822	mm	600
<b>EDGE PROFILE</b>			
Butt edges			
<b>DENSITY</b>			
Average value with supports		kg/m3	45 ± 2
<b>DECLARED THERMAL CONDUCTIVITY AND DECLARED THERMAL RESISTANCE</b>			
Declared thermal conductivity ( $\lambda_D$ )	EN 13165 EN 12667	W/mK	Thickness from 20mm to 70mm
			Thickness from 80mm to 120mm
Declared Thermal Resistance (Norm EN 13165)			
Thickness (mm):	30	40	50
	60	70	80
	90	100	120
Thermal Resistance (m <sup>2</sup> K/W):	1,05	1,40	1,75
	2,10	2,50	3,00
	3,45	3,85	4,60
<b>COMPRESSIVE STRESS OR COMPRESSIVE STRENGTH AT 10% DEFORMATION</b>			
Compressive strength at 10% deformation	EN 826	kPa	≥ 150
<b>COMPRESSIVE STRENGTH AT 2% DEFORMATION</b>			
Compressive strength at 2% deformation	EN 826	kg/m2	da 5000 a 6000 (according to thickness)
<b>DIMENSIONAL STABILITY UNDER SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS</b>			
<u>Test Conditions: (48±1)hours, (70±2)°C and (90±5)% relative humidity</u>			
Relative change in thickness	EN 1604	%	≤ 4
Relative change in length and width			≤ 1
<b>LONG TERM WATER ABSORPTION BY IMMERSION</b>			
Long term water absorption by immersion (28 days)	EN 12087	Vol. %	≤ 2
<b>WATER VAPOUR DIFFUSION RESISTANCE FACTOR (<math>\mu</math>)</b>			
Water vapour diffusion resistance factor ( $\mu$ -MU)	EN 12086		30 - 50
<b>REACTION TO FIRE</b>			
Reaction to fire	EN 13501-1	Euroclass	F