


POLIISO® SB HD

Polyisocyanurate rigid foam (PIR) panels faced one sides with a bituminous glass veil and the other side with saturated mineralized glass veil

CHARACTERISTIC	STANDARD	UNIT	VALUES								
DIMENSIONS											
Thickness	EN 823	mm	30 - 160								
Thickness tolerance class (T2)	EN 823 EN 13165	mm	Thickness < 50 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	EN 13165 EN 12667	W/mK	Thickness from 30 mm to 70 mm 0,028								
Thickness from 80 mm to 100 mm			0,026								
Thickness from 120 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):	1,05	1,40	1,75	2,10	2,50	3,05	3,45	3,80	4,80	5,60	6,40
COMPRESSIVE STRESS AT 10 % DEFORMATION - σ_{10}											
Thickness from 30 mm to 160 mm	EN 826	kPa	≥ 200								
COMPRESSIVE CREEP AFTER 50 YEARS WITH CRUSHING ≤ 2 % - σ_2											
Thickness from 30 mm to 160 mm	EN 1606	kPa	≥ 70								
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								
LONG TERM WATER ABSORPTION BY TOTAL IMMERSION (28 DAYS)											
Thickness from 30 mm to 160 mm	EN 12087	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	F								