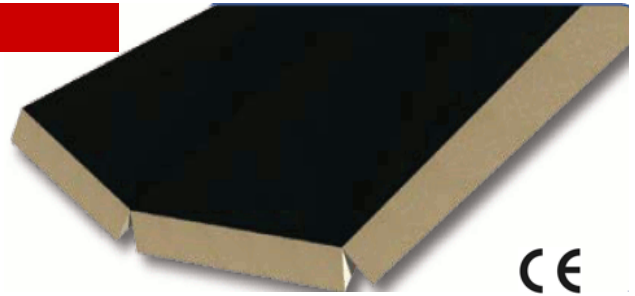


Technical Data Sheet

Stirobit



Description

The Stirobit panel is a light weight high performance insulation board made from high density, closed structured cell extruded polystyrene, blown without the use of CFC or HCFC. The upper side has a polyester membrane attached to it which makes it, both a thermal insulation and a water proofing solution.

Main Applications

Insulation of roofs, applied as retrofit solution on existing screed. Ideal for houses of character roofs.
 Insulation of roofs, under the screed (*that il-kontra bejt*)
 Insulation of floors under load

Characteristics and performance

Characteristics [Standard]	Description	Symbol [Units]	Value								
			Some characteristics depend on the thickness (mm)								
			30	40	50	60	80	100	-	-	
Average initial thermal conductivity [EN 12667]	Value determined at 10°C after 25 years of aging	$\lambda_{90/90,1}$ [W/mK]	0.034		0.035	0.036		0.037	-		
Declared thermal transmittance	$U_D = \lambda_D / d$	U_D [W/m ² K]	-	-	-	-	-	-	-	-	
Declared thermal resistance	$R_D = d / \lambda_D$	R_D [m ² K/W]	0.85	1.15	1.40	1.65	2.20	2.70	-	-	
Compressive strength [EN 826]	Value determined at 10% deformation	$\sigma_{10} \text{ } \sigma_m$ [kPa] (Tons/m ²)	250 (25)		300 (30)						
Sides traction resistance [EN 1607]	Value	[kPa] (Tons/m ²)	TR400 \geq 400 kPa (40)								
Dimensional stability under specified temperature and humidity [EN 1604]	48h (\pm 1) and 70°C (\pm 2) at 90% UR (\pm 5)	DS(TH) [% dimensions]	5	5	5	5	5	5	-	-	
		[% thickness]	5	5	5	5	5	5	-	-	
	48h (\pm 1) to -20°C (\pm 3)	[% dimensions]	-	-	-	-	-	-	-	-	-
		[% thickness]	-	-	-	-	-	-	-	-	-
Nominal thickness [EN 823]		d_N [mm]	production from 30 to 100 mm								
Board density	Average value with facing characteristics	ρ [Kg/m ³]	-								

Euro class reaction to fire [EN 13501-1] [EN 11925 -2] [EN 13823 (SBI)]	Class	Euroclass	E
Water vapor diffusion resistance factor [EN 12086]	Value	μ (MU)	>200
Water absorption [EN 12087]	Total immersion for 28 days	WL [%]	Less then 0.7% _w
Freeze-Thaw resistance [EN 12091]	Class		FT2

Tolerances and Notes

Tolerances [UNI EN 13165]	Thickness	T1 [mm]	<50 ±2 mm		from 50 to 100 ±3 mm	
	Length and breath		600 ±3 mm	1250 ±5 mm	2500 ±10 mm	2900 ±10 mm
Notes	Temperature range	The boards can be used in a constant temperature range of between -50° C and +75° C				
	Visual aesthetics	Any possible little areas of non-adhesion between coats and foam are originated by the production process and don't prejudice in any way the physical-mechanical properties of the panels.				

The manufacturer is certified according to UNI EN ISO 9001:2000 specifications, and all products are CE certified