



XPS TILE

Principali applicazioni



Micro-ventilated pitched roofs

Marcatura CE



Extruded Polystyrene Foam Insulation (XPS)

Thermal insulation board of Extruded Polystyrene foam with grooves of variable pitch designed for the insulation of micro-ventilated pitched roofs

Main applications

Thermal insulation of micro-ventilated pitched roofs below tiles and slates.

Specification wording

The thermal insulation shall consist of a layer of ISOLPARM EXPS TILE extruded polystyrene foam board with Lap joint edges at all four sides.

Thermal conductivityW/mK according to UNI EN 13164.

The top face of the board is grooved to match with tiles with a pitch ofmm

Board; size 600x...mm.; thickness ; colour: Yellow

Sizes and packaging

Boards are 600mm wide with 3 longitudinal grooves and can be ordered with a length in multiples of the pitch of the specified roof tiles.

Standard board sizes available in stock:

Tile pitch 315mm: board size 600x1260mm

Tile pitch 342mm: board size 600x1030mm

Boards are shrink wrapped in packages with PE foil.

The number of boards and the square metres in each package vary with the board thickness (see table).

thickness mm	board size mm	p.cs/package	package/pallet
40	600 x ...	10	12
50	600 x ...	8	12
60	600 x ...	7	12



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TECHNICAL DATA SHEET

UNI EN 13164

Properties	Code	Norm	Description	XPS	Unit	
Density				30 ± 5%	kg/mc	
Declared heat conductivity	λ_D	UNI EN 12667	value measured at a mean temperature of 10 °C	mm 20	0,031	W/mK
				mm 30, 40	0,034	
				from mm 50 to 120	0,036	
Declared heat resistance	R_D	UNI EN 12667	related to thickness $R_D = d / \lambda_D$	mm 20	0,65	(m²K)/W
				mm 30	0,88	
				mm 40	1,18	
				mm 50	1,39	
				mm 60	1,37	
				mm 80	2,22	
				mm 100	2,78	
				mm 120	3,33	
Resistance to compression	CS (10/Y)	UNI EN 826	compression to 10% of thickness	mm 20	150	KPa
				mm 30	200	
				from mm 40 to 120	300	
Dimensional stability	DS(TH)	UNI EN 1604	test conditions: 48 h, 70 °C, 90% RH	linear variation	2	%
				variation in thickness	2	%
Fire rating	euroclasse	UNI EN 13501-1		E		
Specific heat		UNI EN 12524		1200	J/(KgK)	
Resistance to water vapour diffusion	MU	UNI EN 12086	depending on surface	100 - 200	μ	
Water absorption by diffusion	WD(v)5	UNI EN 12088	after 28 days, with moisture gradient 0%-100% between board sides and test temperature 50°C	$d_N = 50$ mm	< 3	% volume
				$d_N = 100$ mm	< 3	
Water absorption by immersion	WL(T)0,7	UNI EN 12087		> 0,5	% volume	
Thickness tolerance	T1	UNI EN 823		< 50	± 2,0	mm
				from 50 to 120	+3,0 / -2,0	
				> 120	+8,0 / -2,0	
Using temperature				75	°C	