



## XPS

### Main applications



Floors



Industrial floors and cold rooms



Ballasted or paved flat roofs



Roof gardens



Micro-ventilated pitched roofs



Pitched Roofs



Cavities

### CE marking



Extruded Polystyrene Foam Insulation (XPS)

### Thermal insulation board of Polystyrene Foam extruded in a single layer

#### Main application

Thermal insulation of flat, pitched and inverted roofs, cavities, residential and industrial floors. Cladding insulation, house wraps, ground and/or Roof Garden insulation.

#### Specification wording

The thermal insulation shall consist of a layer of ISOLPARMA XPS extruded polystyrene foam boards.  
Thermal conductivity  $\lambda_D$  of .... W/mK according to UNI EN 13164.  
Board size mm ... x ... , thickness mm....

#### Sizes and packaging

The boards are supplied with the following profiles:

V type with sharp edge

L type with lap joint edges

TG type with tongue and groove edges

The V and L, are supplied in a standard size of 600 x 1250 mm,  
TG type boards are size 600 x 2800 mm.

The boards are packed in shrink wrap PE foil.

Quantities per package vary with thickness (see table overleaf).


**TECHNICAL DATA SHEET**

UNI EN 13164

Properties	Code	Norm	Description	XPS	Unit	
Density				30 ± 5%	kg/mc	
Declared heat conductivity	$\lambda_D$	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	(m <sup>2</sup> K)/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	euroclass	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	$\mu$	
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	

**Sizes and packaging**

V type with sharp edge	thickness mm	board size mm	p.cs/package	m <sup>2</sup> /package	packages/pallet
	20	600 x 1250	20	15,00	12
	30	600 x 1250	14	10,50	12
	40	600 x 1250	10	7,50	12
	50	600 x 1250	8	6,00	12
	60	600 x 1250	7	5,25	12
	70	600 x 1250	6	4,50	12
	80	600 x 1250	5	3,75	12
L type with lap joint edges	thickness mm	board size mm	p.cs/package	m <sup>2</sup> /package	packages/pallet
	30	600 x 1250	14	10,50	12
	40	600 x 1250	10	7,50	12
	50	600 x 1250	8	6,00	12
	60	600 x 1250	7	5,25	12
	70	600 x 1250	6	4,50	12
	80	600 x 1250	5	3,75	12
TG type with tongue and groove edges	thickness mm	board size mm	p.cs/package	m <sup>2</sup> /package	packages/pallet
	30	600 x 2800	14	23,52	12
	40	600 x 2800	10	16,80	12

Technical Data Sheet issued in November 2007