

RF1A

Main applications



Floors



Industrial floors
and cold rooms

CE marking



Polyurethane
Foam Insulation
(PUR)

Thermal insulation board made of rigid Polyurethane foam lined with bitumen paper

Main applications

Thermal insulation for civil and industrial floors. Particularly recommended for the insulation of cold room floors.

Specification wording

The thermal insulation shall consist of a layer of ISOLPARMA RF1A Rigid Polyurethane (PUR) foam boards, lined on both sides with bitumen paper.

Thermal conductivity λ_D of 0.028 W/mK according to UNI EN 13165
Board size mm ... x ... , Thickness mm....

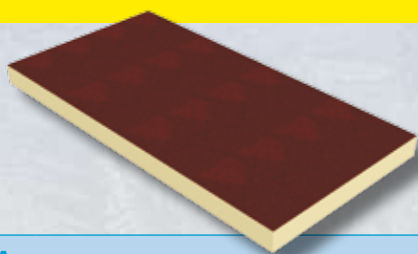
Sizes and packaging

The boards are supplied in a standard size of 1200x2000 mm, shrink wrapped in packages with PE foil.

Other board sizes are available on request (minimum quantities apply).

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

Thickness mm	Board size mm	p.cs/package	m ² /package	packages/pallet
30	1200 x 2000	8	19,20	12
40	1200 x 2000	6	14,40	12
50	1200 x 2000	5	12,00	11
60	1200 x 2000	4	11,80	12
80	1200 x 2000	3	7,20	12
100	1200 x 2000	3	7,20	9
110	1200 x 2000	3	7,20	9
120	1200 x 2000	2	4,80	12
130	1200 x 2000	2	4,80	11
140	1200 x 2000	2	4,80	10



TECHNICAL DATA SHEET RF1A

UNI EN 13165

Properties	Code	Norm	Description	Value	Unit	
Density				30 - 35	kg/mc	
Initial heat conductivity	$\lambda_{90/90,1}$	UNI EN 12667	Value measured at a mean temperature of 10 °C	0,024	W/mK	
Declared heat conductivity	λ_D	UNI EN 13165 Annexes A and C	Value measured at a mean temperature of 10 °C	0,028	W/mK	
Rated thickness	d_N	UNI EN 823	production standard	from 30 to 140	mm	
Declared heat resistance	R_D	UNI EN 12667	related to thickness (d) $R_D = d/\lambda_D$	mm 30	1,07	(m ² K)/W
				mm 40	1,43	
				mm 50	1,79	
				mm 60	2,14	
				mm 80	2,86	
				mm 100	3,57	
				mm 110	3,93	
				mm 120	4,29	
				mm 130	4,64	
mm 140	5,00					
Resistance to compression	CS(10/Y)	UNI EN 826	compression to 10% of thickness	mm 30, 40, 50	130	kPa
				mm 60, 70, 80, 100, 110, 120, 130, 140	150	
Dimensional Stability	DS(TH)	UNI EN 1604	test conditions: 48 h, 70 °C, 90% RH			%
			linear variation		1	
			variation in thickness	mm 30,40	5	
				mm 50	4	
				mm 60, 70, 80, 100, 110, 120, 130, 140	3	
			test conditions: 48 h, -20°C			
linear variation		0,5				
variation in thickness		1				
Fire rating	euroclass	UNI EN 13501-1		F		
Specific heat				0,400	kcal/kg°C	
Water absorption	WL(T)	UNI EN 12087	Total immersion for 28 days	< 2	%	
Resistance to water vapour diiffusion	MU	UNI EN 12086		350	μ	

Tolerances provided for by European Norm UNI EN 13165

On thickness	T2	UNI EN 13165	Thickness < 50 mm	± 2	mm
			Thickness > 50 and < 75 mm	± 3	
			Thickness > 75 mm	+ 5, -2	
On dimensions			Dimensions < 1000	± 5	mm
			Dimensions from 1000 to 2000	± 7,5	
			Dimensions from 2000 to 4000	± 10	
			Dimensions > 4000	± 15	

NOTES:

Temperature Stability: Isolparma Rigid Foam Boards are suitable for use within a range of continuous temperatures between -40 °C and + 110 °C. For very short periods of time they can also withstand temperatures up to + 200 °C, or the temperatures of molten bitumen. Long exposure to high temperatures may cause deformations of the foam or of the facing materials, but will not cause sublimation or melting. The RF1A board is **not suitable** for applications with a propane torch.