

Thermal insulation board made of rigid Polyisocyanurate (Polyiso) foam lined with 60 micron embossed aluminium

Main applications

Thermal insulation of civil and industrial buildings (floors, walls and partitions, pitched and vaulted roofs, ventilated and/or micro-ventilated). The RF5 board is not suitable for applications with a propane torch.

Specification wording

The thermal insulation shall consist of a layer of ISOLPARMA RF5 Rigid PIR (Polyiso) foam boards, lined on both sides with 60 micron embossed aluminium foil.

Thermal conductivity λ_D of 0.023 W/mK according to EN 13165.

Board size mm ... x ... , Thickness mm..."

Sizes and packaging

The boards are supplied in a standard size of 1,2 x 2,5 m. shrink wrapped in packages with PE foil.

Thickness mm	Board size m
20	1,2 x 2,5
30	1,2 x 2,5
40	1,2 x 2,5
50	1,2 x 2,5
60	1,2 x 2,5
80	1,2 x 2,5
100	1,2 x 2,5

RF5

Main applications



Floors recommended for heat radiating floors



Industrial floors also heat radiating



Cavities



Micro-ventilated pitched roofs



Normal pitched roofs



Vaulted roofs



Ballasted or paved flat roofs



Car Parks and ramps



Roof gardens



Shed roofs

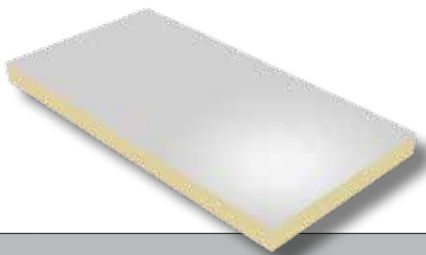


Prefabricated R.C. roof elements

CE marking



Polyisocyanurate Foam Insulation (PIR)


RF5

TECHNICAL DATA SHEET RF5				EN 13165			
Properties	Code	Norm	Description	Value	Unit		
Board Density	ρ		Average value with facing characteristics	40	kg/m ³		
Average Initial Thermal Conductivity	$\lambda_{90/90,i}$	EN 12667	Value at 10 °C	0,022	W/mK		
Declared Thermal Conductivity	λ_D	EN 13165 Annexes A and C	Value at 10 °C	0,023	W/mK		
Nominal Thickness	d_N	EN 823		from 20 to 100	mm		
Declared Thermal Resistance	R_D	EN 12667	$R_D = d/\lambda_D$	mm 20	0,87	(m ² K)/W	
				mm 30	1,30		
				mm 40	1,74		
				mm 50	2,17		
				mm 60	2,61		
				mm 80	3,48		
				mm 100	4,35		
Compressive Strength	CS(10/Y)	EN 826	at 10% deformation	mm 20, 30 and 50	160	kPa	
				mm 40	150		
				mm 60 to 100	150		
Dimensional Stability	DS(TH)	EN 1604	test conditions: 48h, 70 °C, 90% RH			%	
			variation on dimensions		1		
			variation on thickness	mm 20	5		
				mm 30 to 100	4		
			test conditions: 48h, -20°C				
			variation on dimensions		0,5		
variation on thickness		1					
Reaction To Fire	Euroclass	EN 13501-1		D			
Specific Heat Capacity				1370	J/kg°C		
Water Absorption	WL(T)	EN 12087	Total immersion for 28 days	< 1	%		
Water Vapour Diffusion Resistance Factor	MU	EN 12086		>89900	μ		
Tolerances provided for by European Norm EN 13165							
Thickness	T2	EN 13165	Thickness < 50 mm	± 2	mm		
			Thickness > 50 and < 75 mm	± 3			
			Thickness > 75 mm	+ 5, -2			
Dimensions			Dimensions < 1000	± 5	mm		
			Dimensions from 1000 to 2000	$\pm 7,5$			
			Dimensions from 2000 to 4000	± 10			
			Dimensions > 4000	± 15			

NOTES:

Temperature Stability: Isolparma RF Rigid Foam Boards can be used in a range of temperatures between -40 °C and + 110 °C. They will resist to limited exposure to peaks of up to 200 °C and withstand with no problems the temperatures of molten bitumen. Prolonged exposure to high temperatures may cause deformations to the foam or to the facing material, but will not cause sublimation or melting of the foam.