



ISOLPARMA RF3 is a high performance insulation board with a rigid thermoset polyisocyanurate (PIR) foam core, with a CFC and HCFC free blowing agent, lined on both sides with Duotwin® facing.

Main applications

Thermal insulation for walls, floors and pitched roofs.

Specification wording

The thermal insulation shall consist of a layer of ISOLPARMA RF3 Rigid PIR (Polyiso) foam boards, lined on both sides with Duotwin 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 1,2 m. shrink wrapped in packages with PE foil.

Thickness mm	Board size m
30	1,2 x 1,2
40	1,2 x 1,2
50	1,2 x 1,2
60	1,2 x 1,2
70	1,2 x 1,2
80	1,2 x 1,2
82	1,2 x 1,2
90	1,2 x 1,2
100	1,2 x 1,2
110	1,2 x 1,2
120	1,2 x 1,2

RF3

Main applications



Cavities



Floors



Micro-ventilated pitched roofs



Pitched roofs



Prefabricated R.C. roof elements



Shed roofs

CE marking



Polyisocyanurate Foam Insulation (PIR)


RF3

TECHNICAL DATA SHEET RF3				EN 13165		
Properties	Code	Norm	Description	Value	Unit	
Board Density	ρ		Average value with facing characteristics	36	kg/m ³	
Average Initial Thermal Conductivity	$\lambda_{90/90,1}$	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 30 to 120	mm	
Declared Thermal Resistance	R_D	EN 12667	$R_D = d/\lambda_D$	mm 30	1,30	(m ² K)/W
				mm 40	1,74	
				mm 50	2,17	
				mm 60	2,61	
				mm 70	3,04	
				mm 80	3,48	
				mm 82	3,57	
				mm 90	3,91	
				mm 100	4,35	
				mm 110	4,78	
mm 120	5,22					
Compressive Strength	CS(10/Y)	EN 826	at 10% deformation	mm 30	150	kPa
				mm 40	140	
				mm 50 to 70	150	
				mma 80 to 120	130	
Dimensional Stability	DS(TH)	EN 1604	test conditions: 48h, 70 °C, 90% RH		%	
			variation on dimensions	1		
			variation on thickness	4		
			test conditions: 48h, -20°C			
			variation on dimensions	0,5		
variation on thickness	1					
Reaction To Fire	Euroclass	EN 13501-1		F		
Specific Heat Capacity				1453	J/kg°C	
Water Absorption	WL(T)	EN 12087	Total immersion for 28 days	< 1	%	
Water Vapour Diffusion Resistance	Z	EN 12086		21 ± 3	m ² /hPa	
Water Vapour Diffusion Resistance Factor	MU	EN 12086		148 ± 24	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	± 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.