



ISOLPARMA RF8 is a high performance insulation board with a rigid thermoset polyisocyanurate (PIR) foam core, with a CFC and HCFC free blowing agent, lined with sanded bitumen-saturated glass on one side, and saturated mineral fibre on the other.

Main applications

Thermal insulation of roofs under bituminous waterproofing membranes applied by propane torch.

Specification wording

The thermal insulation shall consist of a layer of ISOLPARMA RF8 Rigid PIR (Polyiso) foam boards, lined with sanded bitumen-saturated glass on one side and saturated mineral fibre on the other.

Thermal conductivity λ_D of 0.028 W/mK until thickness 70 mm, and 0.026 W/mK thickness 80 - 120 mm, according to EN 13165.

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

Sizes and packaging

The boards are supplied in a standard size of 0,6 x 1,2 m. shrink wrapped in packages with PE foil.

Thickness mm	Board size mm
30	0,6 x 1,2
40	0,6 x 1,2
50	0,6 x 1,2
60	0,6 x 1,2
80	0,6 x 1,2
100	0,6 x 1,2
110	0,6 x 1,2
120	0,6 x 1,2

RF8

Main applications



Pitched roofs
below tiles
or slates



Ballasted or paved
flat roofs



Roof gardens



Flat roofs
with exposed
waterproofing layers



Car parks and
ramps



Shed roofs



Prefabricated R.C.
roof elements

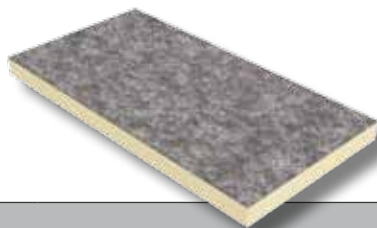


Vaulted roofs

CE marking



Polyisocyanurate
Foam Insulation
(PIR)


RF8

TECHNICAL DATA SHEET RF8					EN 13165		
Properties	Code	Norm	Description		Value	Unit	
Board Density	ρ		Average value with facing characteristics		44	kg/m ³	
Average Initial Thermal Conductivity	$\lambda_{90/90,i}$	EN 12667	Value at 10 °C		0,024	W/mK	
Declared Thermal Conductivity	λ_D	EN 13165 Annexes A and C	Value at 10 °C	mm 30 to 70	0,028	W/mK	
				mm 80 to 120	0,026		
Declared Thermal Conductivity	d_N	EN 823			from 30 to 120	mm	
Declared Thermal Resistance	R_D	EN 12667	$R_D=d/\lambda_D$	mm 30	1,07	(m ² K)W	
				mm 40	1,43		
				mm 50	1,79		
				mm 60	2,14		
				mm 70	2,50		
				mm 80	3,08		
				mm 100	3,85		
				mm 120	4,62		
Compressive Strength	CS(10/Y)	EN 826	at 10% deformation	mm 30 and 40	150	kPa	
				mm 50	160		
				mm 60 to 70	175		
				mm 80 to 120	150		
Dimensional Stability	DS(TH)	EN 1604	test conditions: 48h, 70 °C, 90% RH			%	
			variation on dimensions		1		
			variation on thickness	mm 30	5		
				mm 40 to 120	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					1458	J/Kg °C	
Water Absorption	WL(T)	EN 12087	Total immersion for 28 days		< 2	%	
Water Vapour Diffusion Resistance	Z	EN 12086			4.9 ± 0.1	m ² /hPa	
Water Vapour Diffusion Resistance Factor	MU	EN 12086			33 ± 2	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.							