



## RF3

### Main applications



Cavities



Floors



Micro-ventilated pitched roofs



Pitched roofs



Shed roofs

### CE marking



Polyisocyanurate  
Foam Insulation  
(PIR)

**Thermal insulation board made of rigid Polyisocyanurate (Polyiso) foam lined with Duotwin foli.**

### 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  $\lambda_D$  of 0.024 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 t (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 <sup>2</sup> /package	packages/pallet
20	600 x 1200	24	17,28	12
30	600 x 1200	20	14,40	9
40	600 x 1200	16	11,52	9
50	600 x 1200	14	10,08	8
60	600 x 1200	12	8,64	8
80	600 x 1200	8	5,76	9
100	600 x 1200	6	4,32	9
110	600 x 1200	6	4,32	8
120	600 x 1200	6	4,32	8
130	600 x 1200	6	4,32	7
140	600 x 1200	4	2,88	10



### TECHNICAL DATA SHEET RF3

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	0,022	W/mK	
Declared heat conductivity	$\lambda_D$	UNI EN 13165 Annexes A and C	Value measured at a mean temperature of 10 °C	0,024	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	1,25	(m <sup>2</sup> K)/W
				mm 40	1,67	
				mm 50	2,08	
				mm 60	2,50	
				mm 80	2,92	
				mm 100	3,33	
				mm 110	3,75	
				mm 120	4,17	
				mm 130	5,00	
mm 140	5,83					
Resistance to compression	CS(10/Y)	UNI EN 826	compression to 10% of thickness	130	kPa	
Dimensional Stability	DS(TH)	UNI EN 1604	test conditions: 48 h, 70 °C, 90% RH		%	
			linear variation			1
			variation in thickness	mm 30		5
				mm da 40 a 140		4
			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	< 1	%	
Resistance to water vapour diiffusion	MU	UNI EN 12086		148 ± 24	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.