



### RF7

#### Main applications



Ballasted or paved flat roofs



Industrial floors and cold rooms



Flat roofs below bituminous membranes or high-polymer (PVC, TPO, EPDM) waterproofing layers



Car parks and ramps



Roof gardens

#### CE marking



Polyisocyanurate Foam Insulation (PIR)

**Thermal insulation board made of rigid Polyisocyanurate (Polyiso) foam lined with saturated mineral fibre.**

#### Main applications

Thermal insulation under bituminous or high-polymer waterproofing membranes.

#### Specification wording

The thermal insulation shall consist of a layer of ISOLPARMA RF2 Rigid PIR (Polyiso) foam boards, lined on both sides with saturated mineral fibre.

Thermal conductivity  $\lambda_D$  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 <sup>2</sup> /package	packages/pallet
20	600 x 1200	30	21,60	9
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



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### TECHNICAL DATA SHEET RF7

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	$\lambda_D$	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 20 to 140	mm	
Declared heat resistance	$R_D$	UNI EN 12667	related to thickness (d) $R_D = d/\lambda_D$	mm 20	0,71	(m <sup>2</sup> K)/W
				mm 30	1,07	
				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 20	160	kPa
				mm 30, 40	150	
				mm 50, 60	160	
				from mm 80 to 140	150	
Dimensional Stability	DS(TH)	UNI EN 1604	test conditions: 48 h, 70 °C, 90% RH		%	
			linear variation			1
			variation in thickness	mm 20, 30		6
				mm 40		5
				mm 60		3
				mm 50 e mm da 80 a 140		4
			test conditions: 48 h, -20°C			
			linear variation			0,5
variation in thickness		1				
Fire rating	euroclass	UNI EN 13501-1		E		
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	$\mu$	
Tolerances provided for by European Norm UNI EN 13165						
On thickness	T2	UNI EN 13165	Thickness < 50 mm	$\pm 2$	mm	
			Thickness > 50 and < 75 mm	$\pm 3$		
			Thickness > 75 mm	+ 5, -2		
On dimensions			Dimensions < 1000	$\pm 5$	mm	
			Dimensions from 1000 to 2000	$\pm 7,5$		
			Dimensions from 2000 to 4000	$\pm 10$		
			Dimensions > 4000	$\pm 15$		

#### 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.

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