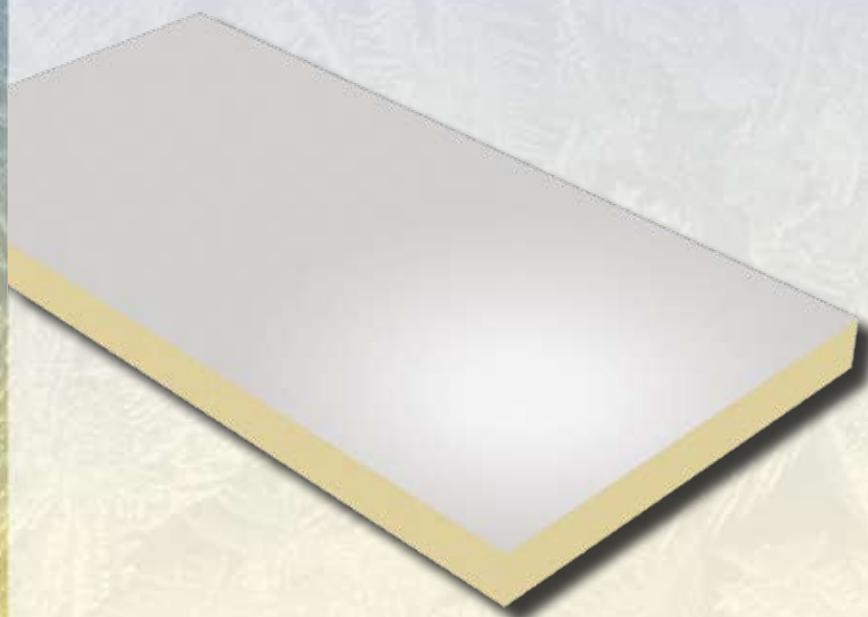


isolparma

RIGID FOAM

Thermal Insulation Boards



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).

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 0.025 W/mK according to UNI EN 13165
Board size mm ... x ... , Thickness mm..."

Sizes and packaging

RF5 boards are available in thicknesses between 20 to 140 mm.
Other thicknesses are available on request (minimum quantities apply).

Boards are supplied in shrink wrapped PE packages .

RF5

Main applications



Floors
reccomended 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)



TECHNICAL DATA SHEET RF5

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	0,023	W/mK	
Declared heat conductivity	λ_D	UNI EN 13165 Annexes A and C	Value measured at a mean temperature of 10 °C	0,025	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	0,80	(m²K)/W
				mm 30	1,20	
				mm 40	1,60	
				mm 50	2,00	
				mm 60	2,40	
				mm 80	3,20	
				mm 100	4,00	
				mm 110	4,40	
				mm 120	4,80	
				mm 130	5,20	
mm 140	5,60					
Resistance to compression	CS(10/Y)	UNI EN 826	compression to 10% of thickness	mm 20	160	kPa
				mm 30	140	
				from mm 40 to 140	150	
Dimensional Stability	DS(TH)	UNI EN 1604	test conditions: 48 h, 70 °C, 90% RH			%
			linear variation	mm 20	2	
				from mm 30 to 140	1	
			variation in thickness	mm 20	7	
				mm 30, 40	6	
				from mm 50 to 140	4	
			test conditions: 48 h, -20°C			
linear variation		0,5				
variation in thickness		1				
Fire rating	euroclass	UNI EN 13501-1		D		
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		350	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	$\pm 7,5$		
			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.