**CURVED SECTION
BOARDS**

Main applications

Curved surface in
general and tanks

CE marking

Polyurethane
Foam Insulation
(PUR)

CURVED SECTION BOARDS are obtained by parallel milling of rigid polyurethane foam boards lined with bitumen paper

Main applications

Thermal insulation of tanks, curved containers and curved surfaces in general.

Specification wording

The thermal insulation shall consist of a layer of ISOLPARMA CURVED SECTION BOARDS of rigid polyurethane foam lined with bitumen paper. Thermal conductivity λ_D of 0.028 W/mK according to UNI EN 13165.

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

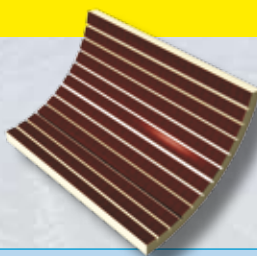
Sizes and packaging

CURVED SECTION BOARDS are available in a thicknesses range between 30 mm and 140 mm.

Other thicknesses are available on request (minimum quantities apply). The boards are shrink-wrapped in packages with PE foil.

For applications where a vapour barrier is required, ISOLPARMA CURVED SECTION BOARDS can be supplied with glass fibre lining on one side and embossed aluminium on the other.

Being a product mostly manufactured on demand, packaging varies with board thickness and size.



TECHNICAL DATA SHEET CIRCULAR SECTORS BOARDS

UNI EN 13165

Properties	Code	Norm	Description	Value	Unit	
Density				30 - 35	kg/mc	
Initial heat conductivity	$\lambda_{90/90,i}$	UNI EN 12667	Value measured at a mean temperature of 10 °C	0,024	W/mK	
Declared heat conductivity	λ_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 30 to 140	mm	
Declared heat resistance	R_D	UNI EN 12667	related to thickness (d) $R_D = d/\lambda_D$	mm 30	1,07	(m ² K)/W
				mm 40	1,43	
				mm 50	1,79	
				mm 60	2,14	
				mm 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 30, 40, 50	130	kPa
				from mm 60 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 30,40		5
				mm 50		4
				from mm 60 to 140		3
			test conditions: 48 h, -20°C			linear variation
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	< 2	%	
Resistance to water vapour diiffusion	MU			350		
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. The CURVED SECTION BOARDS **are not suitable** for application with a propane torch.

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