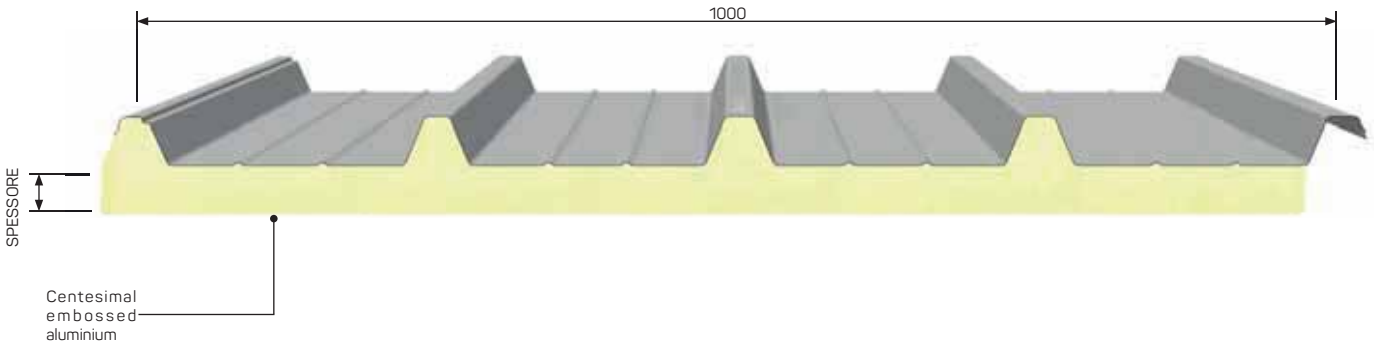
ISOPAN
INSULATING DESIGN

Isogrecata

Manufactured in: Italy, Germany, Spain, Romania

Isogrecata is a self-supporting single skin metal faced panel, insulated with polyurethane foam; its internal face is made of centesimal embossed aluminium. The panel is composed by 5 ribs that allow a good static resistance. It is available in different insulating core thicknesses for building's roofs.



INSTRUCTIONS OF USE
For the use of the panels and the related limits, please consult the technical data sheet available on www.isopan.com under the section "technical data sheet" and the "recommendations for the assembly of ribbed sheets and metal faced insulating panels" defined by ISOPAN.

FIRE PERFORMANCES
Regarding the specifications related to the fire characteristics, please consult the synthesis available in the catalogue or on the website.

Isogrecata

→ see pag. 14

OVERLOAD SPANS

STEEL SHEETS

UNIFORMLY DISTRIBUTED LOAD	THICKNESS SHEETS mm mm					THICKNESS SHEETS mm mm				
	0,5	0,6	0,7	0,8	1,0	0,5	0,6	0,7	0,8	1,0
kg/m²	MAX SPANS cm					MAX SPANS cm				
80	220*	235	250	265	285	250*	270	285	295	320
100	200*	220*	235	245	265	200*	245*	260	275	295
120	180*	200*	215*	230	250	200*	225*	240*	260	280
140	165*	185*	200*	215*	235	185*	205*	225*	240*	265
160	155*	170*	185*	200*	225	175*	195*	210*	225*	255

ALUMINIUM SHEETS

UNIFORMLY DISTRIBUTED LOAD	THICKNESS SHEETS mm mm				THICKNESS SHEETS mm mm			
	0,6	0,7	0,8	1,0	0,6	0,7	0,8	1,0
kg/m²	MAX SPANS cm				MAX SPANS cm			
80	160*	170	180	190	180*	190	200	220
100	140*	155*	165	180	160*	175*	190	205
120	130*	140*	155	170	145*	160*	185	190
140	120*	130*	140*	160	135*	150*	160*	180
160	110*	120*	130*	150	125*	140*	150*	170

* Values with stress limitations. Deflection limit 1/200 ℓ

PANELS WEIGHT

THICKNESS SHEETS mm		PANEL NOMINAL THICKNESS mm					
		30	40	50	60	80	100
0,6	kg/m²	6,9	7,3	7,7	8,1	8,9	9,7
0,7	kg/m²	7,9	8,3	8,7	9,1	9,9	10,7
0,8	kg/m²	8,7	9,3	9,7	10,1	10,9	11,7

DIMENSION TOLERANCE

DEVIATION mm	
Length	± 10
Working length	± 5
Thickness	± 2
Orthogonality and rectangularity	± 3

THERMAL INSULATION

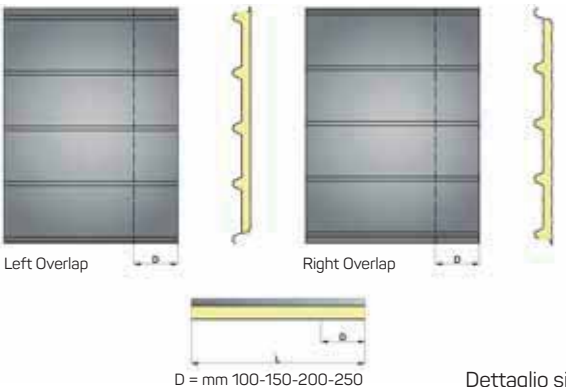
In accordance with the new standard EN 14509 Annex 10

U	PANEL NOMINAL THICKNESS mm					
	30	40	50	60	80	100
W/m² K	0,71	0,54	0,44	0,37	0,28	0,22
kcal/m² h °C	0,61	0,47	0,38	0,32	0,24	0,20

According to the calculation method EN ISO 6946

K	PANEL NOMINAL THICKNESS mm					
	30	40	50	60	80	100
W/m² K	0,55	0,44	0,36	0,31	0,25	0,20
kcal/m² h °C	0,48	0,38	0,32	0,27	0,22	0,17

Details of the fixing system and the coupling tolerance



Dettaglio sistemi di sormonto