

Isogrecata



Tourist resort in Tarragona (Spain)

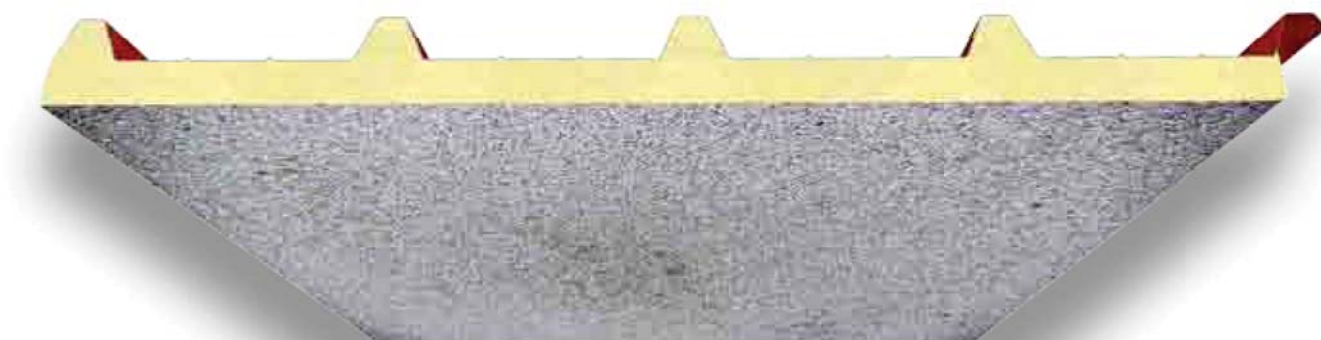


Detail of the roof (Bianco Grigio color)



→ Legend pag. 18

Panel designed for pitched roofs. It is an economic solution, particularly appropriate for low-cost applications, while maintaining excellent aesthetics, reliability and robustness performances. The internal face is made of centesimal embossed aluminium, while the external sheet is made of the same profile as the ISOCOP panel.



APPLICATION

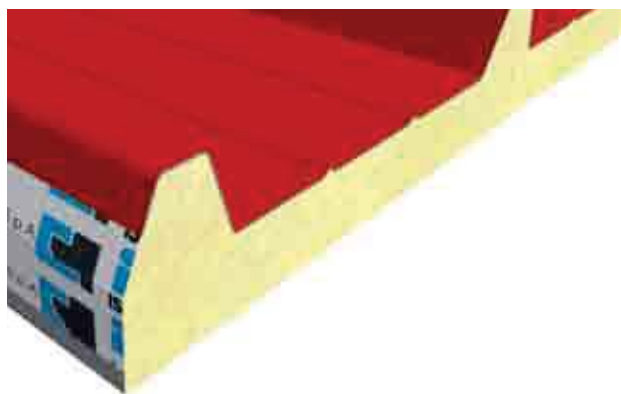
The panel is composed of a rigid ribbed sheet that gives a perfect finishing and allows for a flexible internal face. It is produced with the same profiles and colours as the roof panels with 5 ribs. The internal non metal face is made of centesimal embossed aluminium, appropriate for covering existing roofs with limited aesthetic qualities.

CHARACTERISTICS

Isogrecata is a self-supporting single skin metal faced panel, insulated with polyurethane foam; its internal face is made of centesimal embossed aluminium to be used as non exposed element or with limited aesthetic qualities. The lack of an internal steel sheet and the easy installation make it a cost effective solution. The fixing system is a penetrating type with the possibility to use exposed caps; the number and the place of the fixing elements should guarantee the stresses resistance. On this panel, the LB1 system, which is specially designed for fixing photovoltaic mono and polycrystalline modules, can be used.

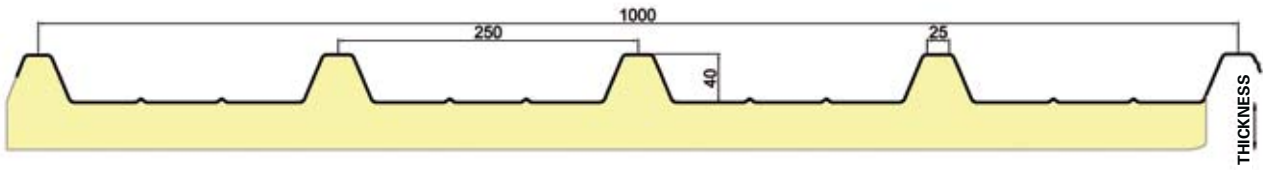
ADVANTAGES

- High thermal insulation
- Mechanical resistance comparable with the ribbed sheet
- Integration of roof windows and flashings
- Reduced costs compared to other types of roofs
- Vapour barrier

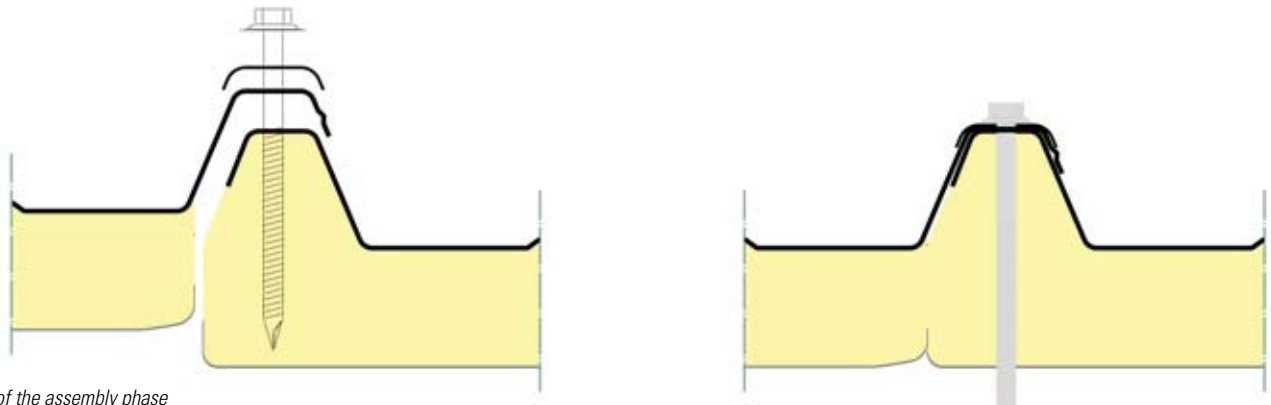


INSTRUCTIONS OF USE

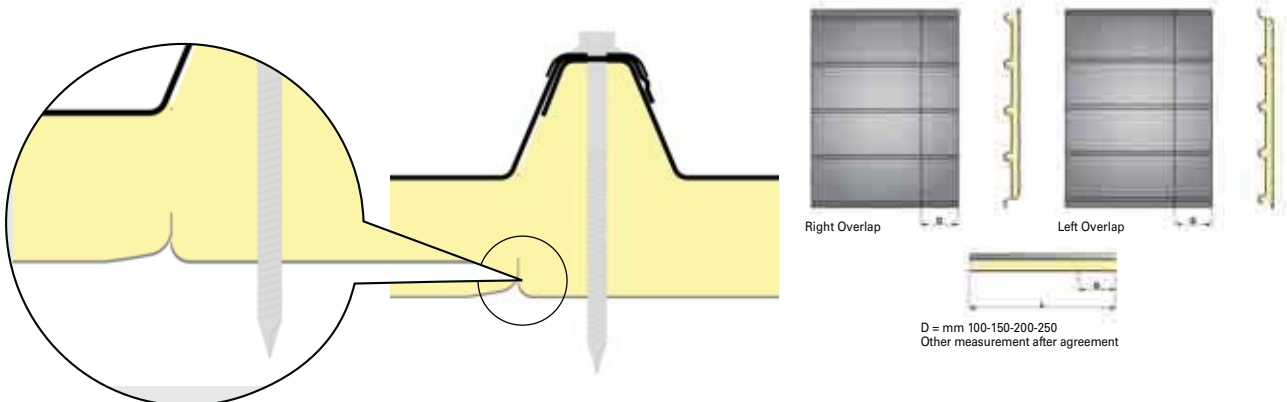
For the use of the panels and the related limits, please consult the technical data sheet available on www.isopan.it under the section "technical data sheet" and the "recommendations for the assembly of ribbed sheets and metal faced insulating panels" defined by AIPPEG Association of Italian Producers of Panels and Ribbed Ements.



Panel transversal section

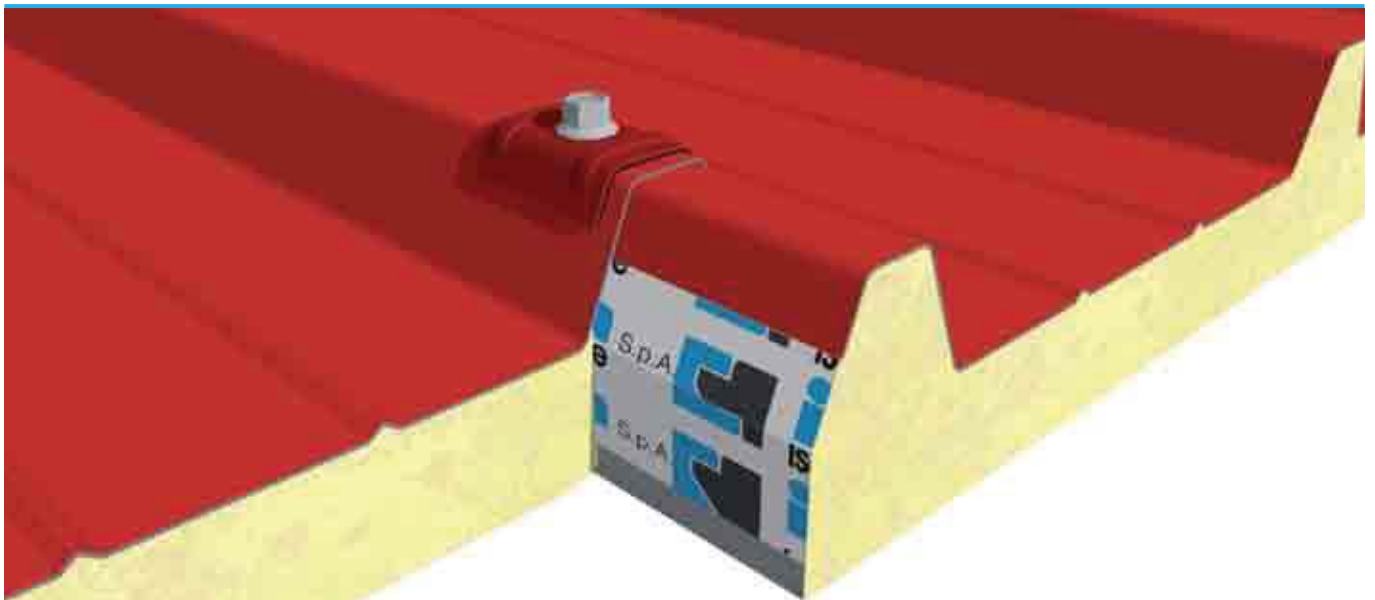


Details of the assembly phase



Details of the fixing system and the coupling tolerance

Details of the overlapping system



OVERLOAD SPANS

Steel sheet										
UNIFORMLY DISTRIBUTED LOAD	SHEET THICKNESS mm					SHEET THICKNESS mm				
	MAX SPANS cm					MAX SPANS cm				
	0,5	0,6	0,7	0,8	1,0	0,5	0,6	0,7	0,8	1,0
kg/m ²										
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

Aluminum sheet								
UNIFORMLY DISTRIBUTED LOAD	SHEET THICKNESS mm				SHEET THICKNESS mm			
	MAX SPANS cm				MAX SPANS cm			
	0,6	0,7	0,8	1,0	0,6	0,7	0,8	1,0
kg/m ²								
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

* Valori con limitazioni di sforzo.
Deflection limit 1/200 ℓ

PANELS WEIGHT

	PANEL NOMINAL THICKNESS mm					
	30	40	50	60	80	100
kg/m ²	6,5	6,9	7,3	7,7	8,5	9,3

FIRE CHARACTERISTICS

Regarding the specifications related to the fire characteristics of the panels, it is possible to consult the synthesis available in the catalogue or on the website www.isopan.it.

THERMAL INSULATION

In accordance with the new standard EN 14509 Annex 10

U	PANEL NOMINAL THICKNESS mm					
	30	40	50	60	80	100
W/m ² K	0,71	0,54	0,44	0,37	0,28	0,22
kcal/m ² h °C	0,61	0,47	0,38	0,32	0,24	0,20

DIMENSION TOLERANCE

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

According to the calculation method EN ISO 69646

K	PANEL NOMINAL THICKNESS mm					
	30	40	50	60	80	100
W/m ² K	0,55	0,44	0,36	0,31	0,25	0,20
kcal/m ² h °C	0,48	0,38	0,32	0,27	0,22	0,17

AVAILABLE COLOURS (the colour should be chosen according to the final-use, the installation area and the standard thicknesses in stock)

bianco grigio 	bianco G9002 	bianco G9010 	grigio antracite G7016 	blu genziana G5010 	blu grigiastro G5008 
silver G9006 	verde muschio G6005 	testa di moro 	rosso ossido G3009 	rosso antico 	