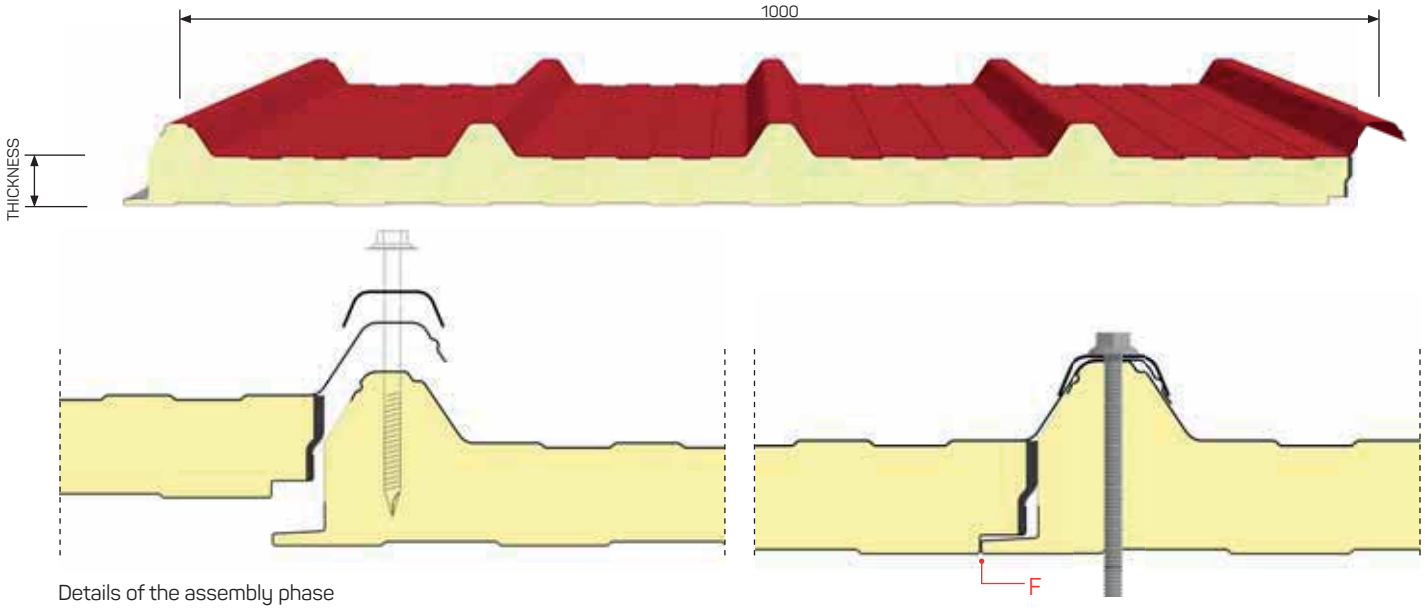
ISOPAN
INSULATING DESIGN

Isosmart

Manufactured in: Italy

It is a self-supporting double skin roof panel, insulated with polyurethane foam, with a tongue-and-groove joint. 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.



Details of the assembly phase

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.

Isosmart

→ see pag. 14

OVERLOAD SPANS

STEEL SHEETS 0,4 / 0,3 mm - Support 120 mm				
UNIFORMLY DISTRIBUTED LOAD	PANEL NOMINAL THICKNESS mm			
	30	40	50	60
kg/m²	MAX SPANS cm			
80	200	225	250	300
100	190	210	230	280
120	175	200	220	250
140	165	190	210	230
160	155	180	200	215
180	145	170	185	205
200	130	160	175	190
220	125	150	160	180
250	110	130	150	170

Calculation for static sizing according to the Annex E of the UNI EN 14509 standard. Deflection limit 1/200 ℓ

PANELS WEIGHT

THICKNESS SHEETS mm		PANEL NOMINAL THICKNESS mm			
		30	40	50	60
0,4 / 0,4	kg/m²	8,1	8,5	8,9	9,3
0,5 / 0,5	kg/m²	9,9	10,3	10,7	11,2
0,6 / 0,6	kg/m²	11,7	12,1	12,5	12,9

DIMENSION TOLERANCE (in accordance with EN 14509)

DEVIATION mm		
Length	L ≤ 3 m L > 3 m	± 5 mm ± 10 mm
Working length	± 2 mm	
Thickness	D ≤ 100 mm D > 100 mm	± 2 mm ± 2 %
Deviation from perpendicularity	6 mm	
Misalignment of the internal metal faces	± 3 mm	
Bottom sheet coupling	F = 0 + 3 mm	

L = working length, D = panels thickness, F = sheets coupling

THERMAL INSULATION

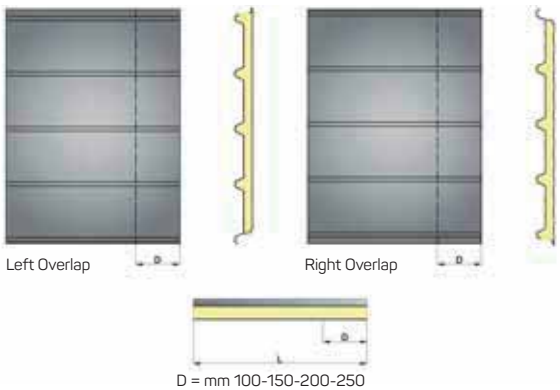
In accordance with the new standard EN 14509 Annex 10

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

According to the calculation method EN ISO 6946

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

Dettaglio del giunto e dettagli del sistema di sormonto



D = mm 100-150-200-250
Other measurement after agreement