

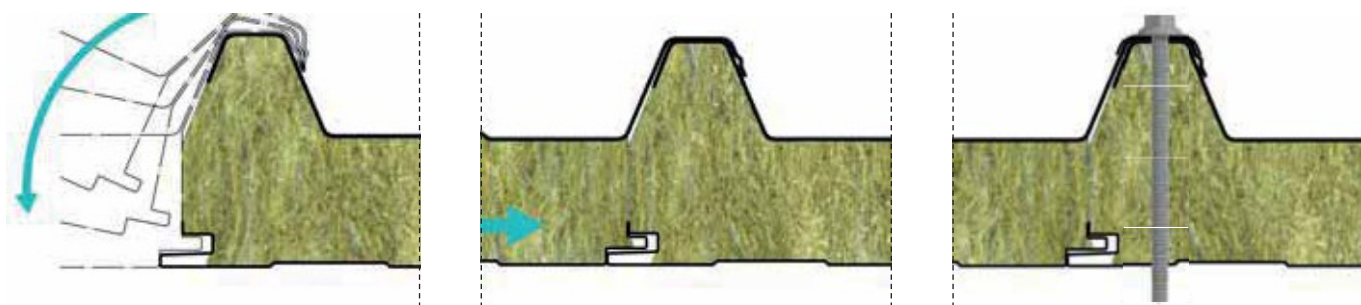
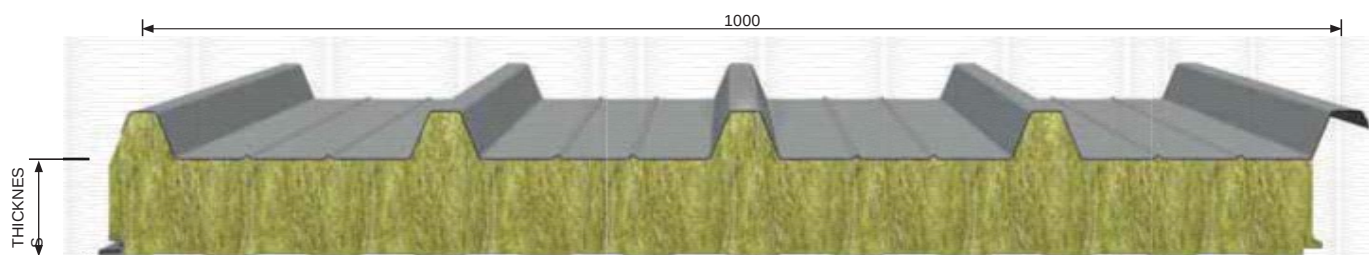


Isofire Roof

Produced in Europe



Isofire Roof is a self-supporting double skin panel, insulated with mineral wool fibre made with an exclusive insulation layer composed of mineral wool strips. The fixing system is a penetrating type with the possibility to use exposed caps.



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.

Isofire Roof



OVERLOAD SPANS

STEEL SHEETS 0,5 / 0,5 mm - Support 120 mm							STEEL SHEETS 0,6 / 0,6 mm - Support 120 mm						
UNIFORMLY DISTRIBUTED LOAD	PANEL NOMINAL THICKNESS mm						PANEL NOMINAL THICKNESS mm						
	50	60	80	100	120	150	50	60	80	100	120	150	
kg/m ²	MAX SPANS cm						MAX SPANS cm						
80	325	355	415	470	515	550	345	370	425	490	535	595	
100	300	325	370	425	480	525	310	335	390	445	495	570	
120	270	300	345	390	435	505	290	310	355	405	450	515	
140	255	270	315	360	405	470	270	290	325	370	415	490	
160	245	265	300	335	380	435	255	270	310	355	390	450	
180	225	245	280	315	355	405	245	255	290	325	360	425	
200	210	225	270	300	335	390	225	245	280	310	345	400	
220	195	215	255	285	315	370	210	235	265	300	335	380	
250	175	195	230	270	295	345	190	210	245	280	310	355	

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							
		50	60	80	100	120	150	170	200
0,5 / 0,5	kg/m ²	14,4	15,4	17,4	19,4	21,4	24,4	26,4	29,4
0,6 / 0,6	kg/m ²	16,2	17,2	19,2	21,2	23,2	26,2	28,2	31,2

DIMENSION TOLERANCE (in accordance with EN 14509)

DEVIATION mm		
Length	L ≤ 3 m	± 5 mm
	L > 3 m	± 10 mm
Working length	± 2 mm	
Thickness	D ≤ 100 mm	± 2 mm
	D > 100 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



FIRE PERFORMANCES

On client's request, Isopan can provide the following certificates related to the reaction to fire:

FIRE REACTION

A2-S1-D0 (secondo EN 13501-1)

FIRE RESISTANCE

REI 30 - THICKNESS 50 mm (EN 13501-2)

REI 60 - THICKNESS 80 mm (EN 13501-2)

REI 120 - THICKNESS 100 mm (EN 13501-2)

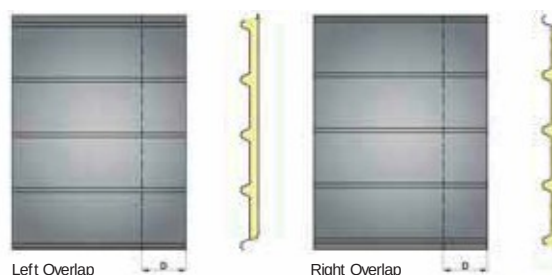
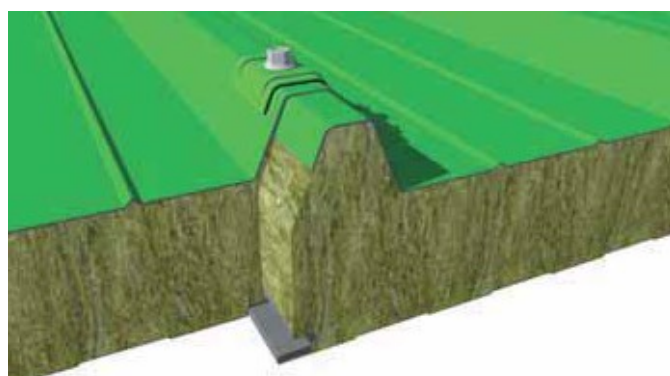
THERMAL INSULATION

In accordance with the new standard EN 14509 Annex 10

U	PANEL NOMINAL THICKNESS mm							
	50	60	80	100	120	150	170	200
W/m ² K	0,78	0,66	0,50	0,41	0,34	0,28	0,24	0,20
kcal/m ² h °C	0,67	0,57	0,43	0,35	0,29	0,24	0,21	0,17

According to the calculation method EN ISO 6946

K	PANEL NOMINAL THICKNESS mm					
	50	60	80	100	120	150
W/m ² K	0,72	0,61	0,44	0,36	0,30	0,25
kcal/m ² h °C	0,64	0,52	0,38	0,32	0,26	0,22



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

