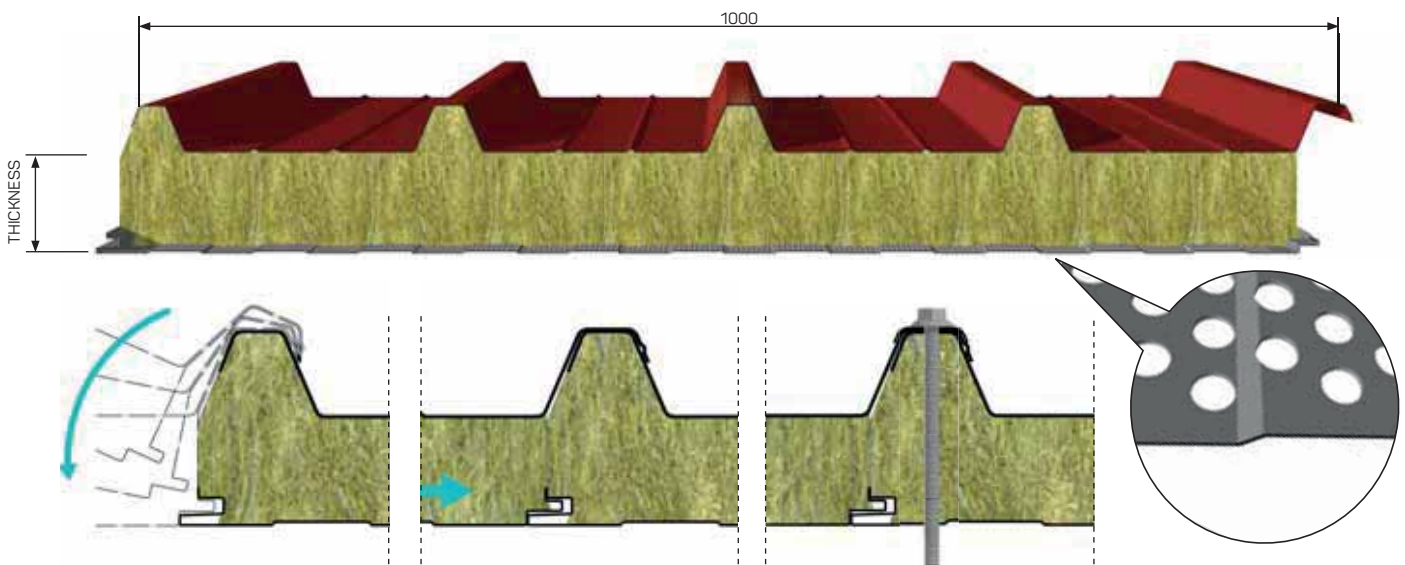


Isofire Roof Fono

Manufactured in: Italy



Isofire Roof FONO 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. The internal sheet is characterised by a micro-drilling that enhances acoustic performances; meaning the sound absorption and insulation.



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.



→ see pag. 14

OVERLOAD SPANS

UNIFORMLY DISTRIBUTED LOAD kg/m ²	STEEL SHEETS 0,5 / 0,5 mm - Support 120 mm						STEEL SHEETS 0,6 / 0,6 mm - Support 120 mm					
	PANEL NOMINAL THICKNESS mm						PANEL NOMINAL THICKNESS mm					
	50	60	80	100	120	150	50	60	80	100	120	150
	MAX SPANS cm						MAX SPANS cm					
80	280	305	360	405	440	470	295	315	360	415	455	510
100	260	280	315	360	410	450	265	285	335	380	425	490
120	230	260	295	335	370	435	250	265	305	350	385	440
140	220	230	270	310	350	405	230	250	280	315	360	415
160	210	225	260	285	325	370	220	230	265	305	335	385
180	195	210	240	270	305	350	210	220	250	280	310	360
200	180	195	230	260	285	335	195	210	240	265	295	340
220	170	180	220	245	270	315	180	205	225	260	285	325
250	150	170	200	230	255	295	165	180	210	240	265	305

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
0,5 / 0,5	kg/m ²	13,9	14,9	16,9	18,9	20,9	23,9
0,6 / 0,6	kg/m ²	15,7	16,7	18,7	20,7	22,7	25,7

ACOUSTIC PERFORMANCES

On client's request, Isopan can provide the following certificates related to the acoustic behaviour:

ACOUSTIC INSULATION

Rw = 31 dB (Roof - Fono 50 mm)
 Rw = 34 dB (Roof - Fono 100 mm)
 Rw = 35 dB (Roof - Fono 80 mm)

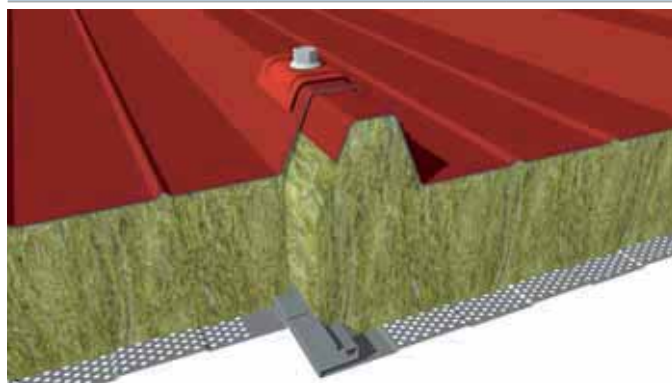
ACOUSTIC ABSORPTION

coefficient of sound absorption aw = 1

THERMAL INSULATION

In accordance with the new standard EN 14509 Annex 10

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



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

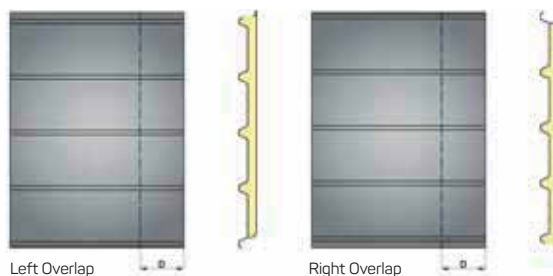
On client's request, Isopan can provide the following certificates related to the reaction to fire:

FIRE RESISTANCE

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

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