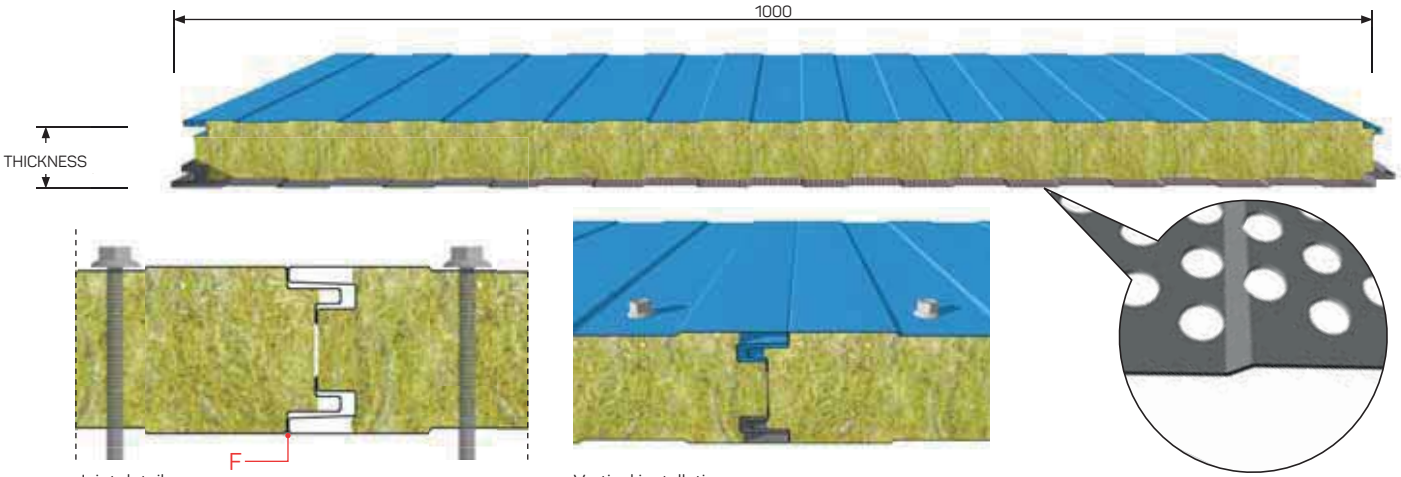
ISOPAN
INSULATING DESIGN

Isofire Wall - Fono

Manufactured in: Italy

It is a self-supporting metal faced panel insulated with mineral wool. The fixing elements are exposed. The internal sheet is characterised by a micro-drilling that enhances acoustic performances; meaning the sound absorption and insulation.



Joint detail

Vertical installation

INSTRUCTIONS OF USE
For the use of the panels and the related limits, please consult the Technical Manual available on www.isopan.com, General Sales Terms and Annexes 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.

Isofire Wall Fono

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OVERLOAD SPANS

STEEL SHEETS 0,5 / 0,5 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/m²	MAX SPANS cm						MAX SPANS cm					
50	290	340	400	460	540	560	340	385	440	465	540	585
60	265	305	370	420	460	515	300	355	400	450	480	530
80	225	265	320	360	395	440	260	300	345	380	410	450
100	200	235	290	320	355	395	225	260	305	340	360	395
120	180	210	260	295	320	360	190	230	275	305	330	355
140	165	195	240	275	300	335	180	205	255	280	300	320
160	160	180	225	255	280	315	160	190	235	260	280	300
180	145	160	205	240	265	295	155	175	220	240	260	280
200	130	155	195	230	250	280	140	160	205	230	245	260

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/m²	MAX SPANS cm						MAX SPANS cm					
50	305	355	440	500	545	600	420	525	590	650	715	610
60	280	320	400	460	500	560	380	475	545	590	665	570
80	240	275	345	395	435	490	325	410	470	515	580	480
100	210	240	305	320	380	430	285	365	380	450	510	420
120	185	220	275	320	355	395	260	325	380	420	470	380
140	170	200	275	300	330	370	235	325	355	390	440	345
160	160	180	230	280	305	345	215	275	330	365	410	320
180	150	165	215	260	290	325	195	255	305	345	385	300
200	140	160	200	240	280	310	190	235	285	330	370	280

Calculation for static sizing according to the Annex E of the UNI EN 14509 standard. Deflection limit 1/200 ℓ. Thermal load is not considered.

PANELS WEIGHT

THICKNESS SHEETS mm		PANEL NOMINAL THICKNESS mm					
		50	60	80	100	120	150
0,5 / 0,5	kg/m²	12,8	13,9	15,5	17,3	19,5	22,7
0,6 / 0,6	kg/m²	14,5	15,5	17,2	19	21,4	24,4

ACOUSTIC PERFORMANCES: On client's request, Isopan can provide the following certificates for the acoustic behaviour:

ACOUSTIC INSULATION
Rw = 34 dB (Wall - Fono, spess. 50)
Rw =35 dB (Wall - Fono, spess. 80)
Rw =35 dB (Wall - Fono, spess. 100)

ACOUSTIC ABSORPTION
Coefficient of sound absorption $\alpha_w = 1$

DIMENSION TOLERANCE (EN 14509)

DEVIATION mm		
Length	L ≤ 3 m L > 3 m	± 5 mm ± 10 mm 0
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	
Sheets coupling	F = 0 + 3 mm	

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

THERMAL INSULATION

According to EN 14509 Annex 10

U	PANEL NOMINAL THICKNESS mm					
	50	60	80	100	120	150
W/m² K	0,75	0,63	0,49	0,39	0,33	0,27
kcal/m² h °C	0,65	0,54	0,42	0,34	0,28	0,23