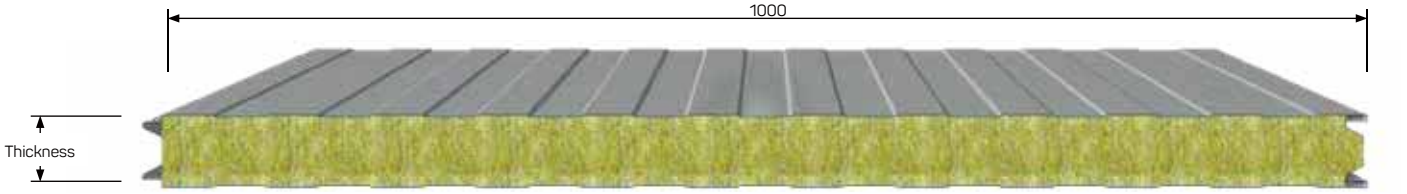
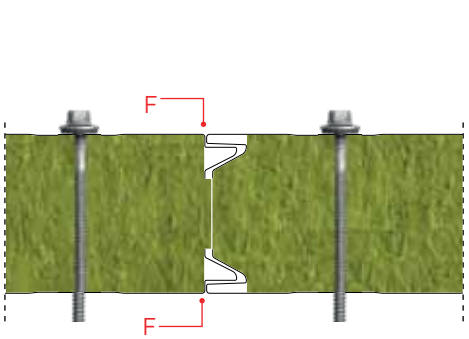
ISOPAN
INSULATING DESIGN

Isofire Wall - Fono

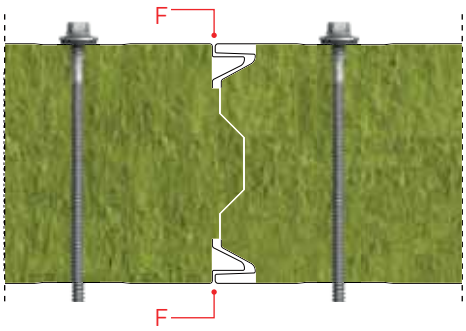
Manufactured in: Italy

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.

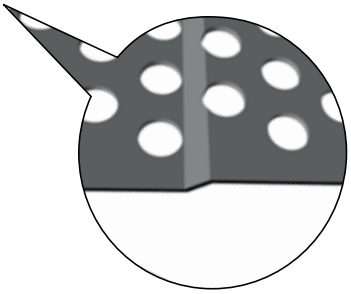




Joint detail



Joint Detail (thickness ≥ 120mm)



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

→ see pag. 16

OVERLOAD SPANS

STEEL SHEETS 0,5 / 0,6 mm - Support 120 mm - (Microdrilled internal sheet 0.6mm)

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	370	400	450	510	560	635	325	350	385	420	455	485
60	325	360	415	475	525	585	290	320	345	375	410	435
80	260	295	355	420	460	515	225	260	290	310	335	355
100	210	245	305	370	410	460	175	210	240	260	280	295
120	175	210	265	320	365	415	150	170	200	220	240	255
140	150	175	230	285	325	370	130	145	175	190	210	220
160	130	155	205	250	290	335	105	130	155	170	185	190
180	120	135	185	225	265	300	100	110	135	150	160	170
200	105	125	170	210	245	275	90	100	125	135	150	160

STEEL SHEETS 0,6 / 0,6 mm - Support 120 mm - (Microdrilled internal sheet 0.6mm)

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	410	435	505	565	605	670	360	385	420	455	485	510
60	355	395	455	535	575	635	315	345	380	410	445	470
80	280	320	390	460	505	560	240	275	315	340	370	390
100	220	260	320	385	440	490	185	215	250	275	300	320
120	195	225	275	345	395	440	160	185	210	235	255	270
140	165	190	240	300	345	395	130	160	185	200	220	235
160	145	175	215	265	310	345	115	135	160	180	190	205
180	130	160	190	230	280	315	105	125	145	160	175	185
200	115	135	175	210	255	280	95	110	130	150	160	175

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 (Steel sheets)

THICKNESS Ext. SHEETS mm (Int. 0,6 mm micro-drill)		PANEL NOMINAL THICKNESS mm					
		50	60	80	100	120	150
0,5	kg/m²	12,6	13,6	15,6	17,6	19,6	22,6
0,6	kg/m²	13,5	14,5	16,5	18,5	20,5	23,5

FIRE AND ACOUSTICS PERFORMANCES
On client's request, Isopan can provide Fire and Acoustic behaviour certificates.
Please consult the synthesis available in the catalogue or on the website.

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