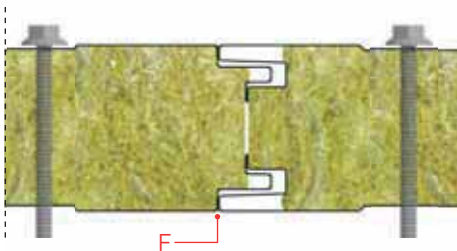
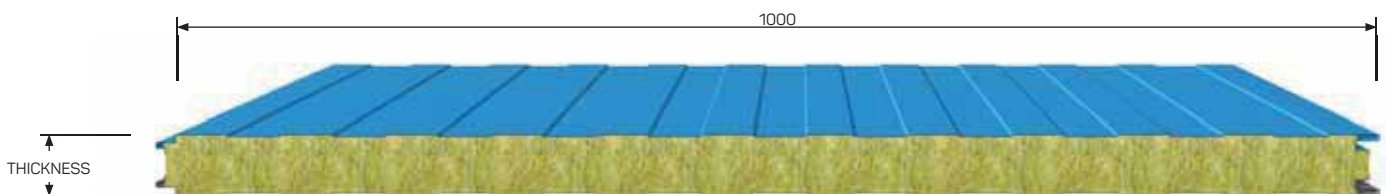


Isofire Wall

Manufactured in: Italy



It is a self-supporting metal faced panel insulated with mineral wool; the labyrinth configuration and the tongue-and-groove joint with a special place for the screw determine the fully concealed fixing element. The fixing elements are exposed.



Joint detail



Vertical installation



Horizontal installation



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

STEEL SHEETS 0,5 / 0,5 mm - Support 120 mm														
UNIFORMLY DISTRIBUTED LOAD kg/m ²	PANEL NOMINAL THICKNESS mm							PANEL NOMINAL THICKNESS mm						
	50	60	80	100	120	150	200	50	60	80	100	120	150	200
	MAX SPANS cm							MAX SPANS cm						
50	345	400	475	545	640	665	760	400	460	525	555	640	695	775
60	315	365	440	495	545	610	690	355	420	475	535	570	630	705
80	270	315	380	430	470	525	610	305	355	410	450	485	535	625
100	240	280	345	380	420	470	560	270	305	365	400	430	470	560
120	215	250	310	350	380	430	515	225	275	325	365	390	420	505
140	195	230	285	325	355	395	480	210	245	300	335	355	380	465
160	190	210	270	300	335	375	450	190	225	280	305	330	355	435
180	175	190	245	285	315	350	410	185	205	265	285	305	330	400
200	155	185	230	275	295	335	375	165	190	245	275	290	310	360

STEEL SHEETS 0,6 / 0,6 mm - Support 120 mm														
UNIFORMLY DISTRIBUTED LOAD kg/m ²	PANEL NOMINAL THICKNESS mm							PANEL NOMINAL THICKNESS mm						
	50	60	80	100	120	150	200	50	60	80	100	120	150	200
	MAX SPANS cm							MAX SPANS cm						
50	365	420	525	590	650	715	780	420	485	570	640	685	725	795
60	335	380	475	545	590	665	720	375	440	515	570	620	675	735
80	285	325	410	470	515	580	635	315	365	440	485	525	570	650
100	250	285	365	380	450	510	595	270	315	390	430	460	495	595
120	220	260	325	380	420	470	540	240	280	355	390	410	450	525
140	200	235	325	355	390	440	505	210	250	325	355	380	410	485
160	190	215	275	330	365	410	485	190	230	295	330	355	380	465
180	180	195	255	305	345	385	450	180	205	270	305	330	355	440
200	165	190	235	285	330	370	420	165	190	250	290	305	330	400

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	13,2	14,2	16,2	18,2	20,2	23,2	25,2	28,2
0,6 / 0,6	kg/m ²	14,9	15,9	17,9	19,9	21,9	24,9	26,9	28,8



FIRE RESISTANCE

- EI 15 - THICKNESS 50 mm (EN 13501-2)
- EI 60 - THICKNESS 80 mm (EN 13501-2)
- EI 90 - THICKNESS 120 mm (EN 13501-2)
- EI 180 - THICKNESS 150 mm (EN 13501-2)

FIRE REACTION: A2-S1-D0

DIMENSION TOLERANCE (in accordance with EN 14509)

	DEVIATION mm	
Length	L ≤ 3 m	± 5 mm
	L > 3 m	± 10 mm 0
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	
Sheets 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							
	50	60	80	100	120	150	170	200
W/m ² K	0,75	0,63	0,49	0,39	0,33	0,27	0,24	0,20
kcal/m ² h °C	0,65	0,54	0,42	0,34	0,28	0,23	0,21	0,17

According to the calculation method EN ISO 6946

K	PANEL NOMINAL THICKNESS mm							
	50	60	80	100	120	150	170	200
W/m ² K	0,75	0,64	0,50	0,40	0,33	0,27	0,24	0,20
kcal/m ² h °C	0,67	0,55	0,44	0,35	0,30	0,24	0,21	0,17