

Isoparete Plissé

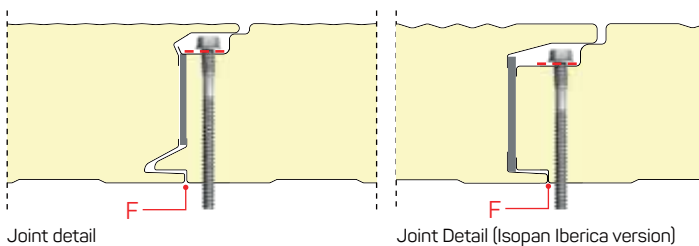
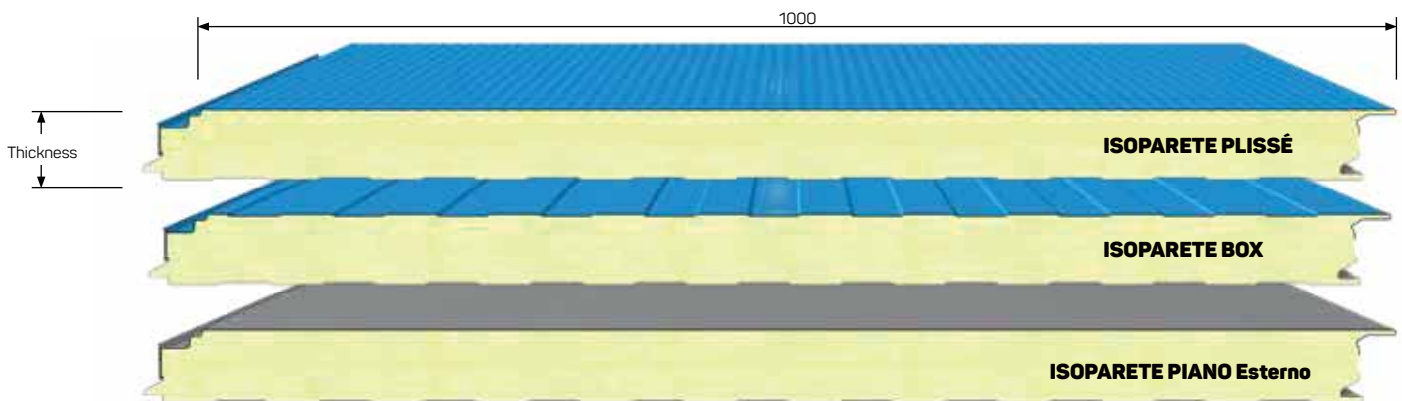
Isoparete Box

Isoparete Piano External

Manufactured in: Italy, Spain, Romania



It is a self-supporting metal faced panel insulated with polyurethane foam; 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 concealed. It is available with different types of profile.



Isopan recommends, during the assembly phase, the use of a specific steel plate to distribute the tightening loads of the screw. The number and the place of the fixing elements must guarantee the stresses resistance, included depression loads.



On request,
Product available with Certification
FM APPROVED

For further informations,
please contact Isopan



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.



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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						
	40	50	60	80	100	120	140	40	50	60	80	100	120	140
	MAX SPANS cm							MAX SPANS cm						
50	320	380	440	550	640	730	800	380	450	520	650	740	800	880
60	300	350	410	500	590	680	745	340	410	470	590	660	710	780
80	260	310	350	440	520	600	660	290	350	410	500	550	600	660
100	230	275	320	395	470	540	590	260	310	360	440	490	510	560
120	210	250	290	360	430	490	535	230	280	320	390	430	460	505
140	190	230	265	330	395	455	500	200	250	295	360	390	420	460
160	175	210	245	310	370	425	465	185	220	265	330	360	385	420
180	165	195	230	290	345	400	440	160	200	240	305	340	360	395
200	155	185	215	270	325	375	410	145	180	215	285	315	335	365

ALUMINIUM SHEETS 0,6 / 0,6 mm - Support 120 mm														
UNIFORMLY DISTRIBUTED LOAD kg/m ²	PANEL NOMINAL THICKNESS mm							PANEL NOMINAL THICKNESS mm						
	40	50	60	80	100	120	140	40	50	60	80	100	120	140
	MAX SPANS cm							MAX SPANS cm						
50	240	290	330	410	480	550	605	290	350	400	490	580	620	680
60	230	270	310	380	450	510	560	270	320	360	450	530	560	635
80	200	240	270	335	390	450	495	235	280	320	400	470	540	590
100	180	215	245	305	360	400	440	210	250	285	360	420	480	525
120	165	195	220	280	330	380	415	190	225	260	330	390	445	485
140	155	185	210	260	310	355	390	170	210	240	300	360	410	450
160	140	170	195	240	285	335	365	160	190	220	280	330	380	415
180	135	160	185	230	275	310	340	150	180	210	265	310	360	395
200	125	150	175	220	260	300	330	140	170	195	245	285	335	365

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 SHEETS mm	kg/m ²	PANEL NOMINAL THICKNESS mm						
		40	50	60	80	100	120	140
0,5 / 0,5	kg/m ²	9,8	10,2	10,6	11,4	12,2	13,0	13,8
0,6 / 0,6	kg/m ²	11,5	11,9	12,3	13,1	13,9	14,7	15,5

DIMENSION TOLERANCE (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



FIRE PERFORMANCES

Regarding the specifications related to the fire characteristics, please consult the synthesis available in the catalogue or on the website.

THERMAL INSULATION

According to EN 14509 Annex 10

U	PANEL NOMINAL THICKNESS mm						
	40	50	60	80	100	120	140
W/m ² K	0,64	0,49	0,41	0,29	0,23	0,19	0,16
kcal/m ² h °C	0,55	0,42	0,35	0,25	0,20	0,16	0,14