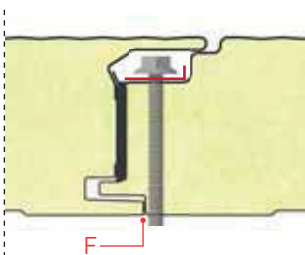
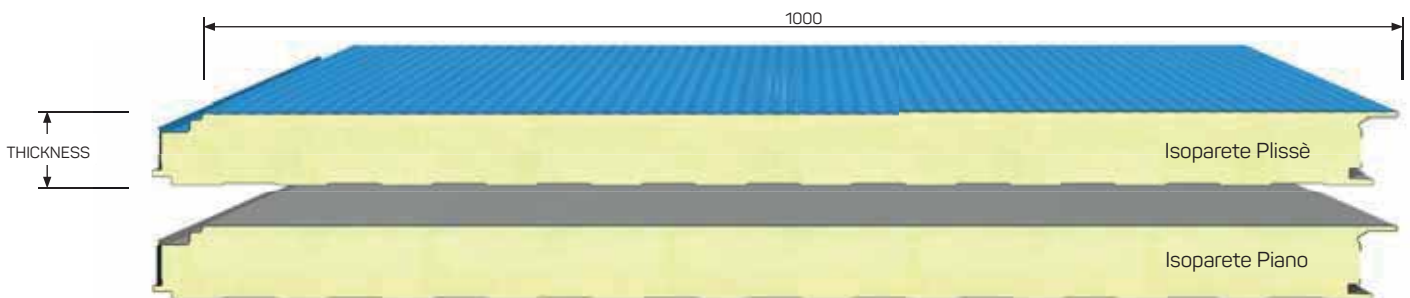


Isoparete Plissé & Isoparete Piano

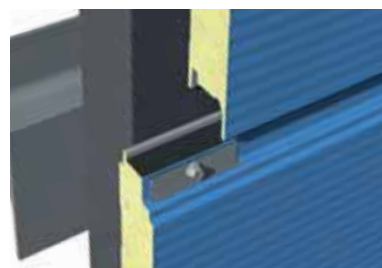
Manufactured in: Italy, Spain, Romania



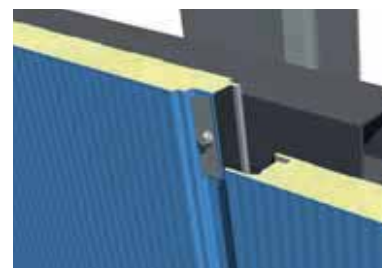
It is a self-supporting metal faced panel insulated with polyurethane foam; the labyrinth configuration and the tongue-and-groove joint with a special place for the screw determine the fully concealed fixing element. The fixing elements are concealed. It is available with different types of profile. It can be combined with the Isoclass panel.



Joint detail



Horizontal installation
(from bottom to the top)



Vertical installation

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.



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. 16

OVERLOAD SPANS

STEEL SHEETS 0,5 / 0,5 mm - Support 120 mm										
UNIFORMLY DISTRIBUTED LOAD kg/m ²	 PANEL NOMINAL THICKNESS mm MAX SPANS cm					 PANEL NOMINAL THICKNESS mm MAX SPANS cm				
	40	50	60	80	100	40	50	60	80	100
	50	320	380	440	550	640	380	450	520	650
60	300	350	410	500	590	340	410	470	590	660
80	260	310	350	440	520	290	350	410	500	550
100	230	275	320	395	470	260	310	360	440	490
120	210	250	290	360	430	230	280	320	390	430
140	190	230	265	330	395	200	250	295	360	390
160	175	210	245	310	370	185	220	265	330	360
180	165	195	230	290	345	160	200	240	305	340
200	155	185	215	270	325	145	180	215	285	315

ALUMINIUM SHEETS 0,6 / 0,6 mm - Support 120 mm										
UNIFORMLY DISTRIBUTED LOAD kg/m ²	 PANEL NOMINAL THICKNESS mm MAX SPANS cm					 PANEL NOMINAL THICKNESS mm MAX SPANS cm				
	40	50	60	80	100	40	50	60	80	100
	50	240	290	330	410	480	290	350	400	490
60	230	270	310	380	450	270	320	360	450	530
80	200	240	270	335	390	235	280	320	400	470
100	180	215	245	305	360	210	250	285	360	420
120	165	195	220	280	330	190	225	260	330	390
140	155	185	210	260	310	170	210	240	300	360
160	140	170	195	240	285	160	190	220	280	330
180	135	160	185	230	275	150	180	210	265	310
200	125	150	175	220	260	140	170	195	245	285

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				
		40	50	60	80	100
0,4 / 0,4	kg/m ²	8,1	8,5	8,9	9,7	10,5
0,5 / 0,5	kg/m ²	9,8	10,2	10,6	11,4	12,2
0,6 / 0,6	kg/m ²	11,5	11,9	12,3	13,1	13,9



FIRE PERFORMANCES

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

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				
	40	50	60	80	100
W/m ² K	0,64	0,49	0,41	0,29	0,23
kcal/m ² h °C	0,55	0,42	0,35	0,25	0,20

According to the calculation method EN ISO 6946

K	PANEL NOMINAL THICKNESS mm				
	40	50	60	80	100
W/m ² K	0,50	0,40	0,34	0,26	0,21
kcal/m ² h °C	0,44	0,35	0,30	0,23	0,18