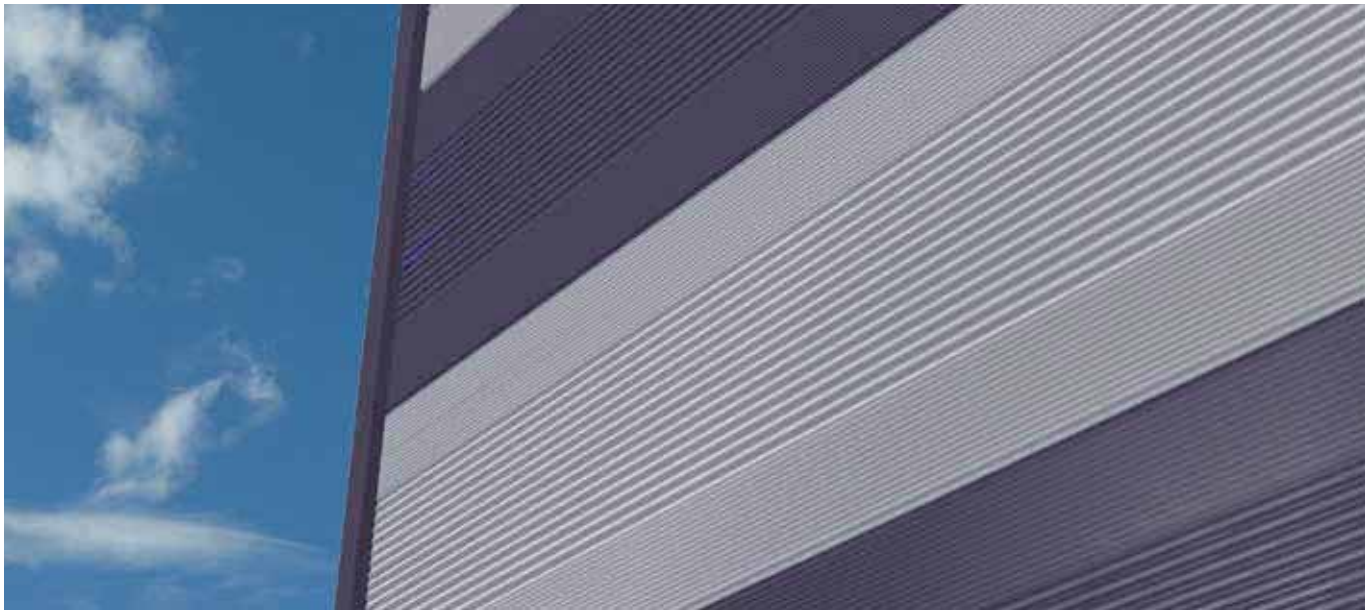
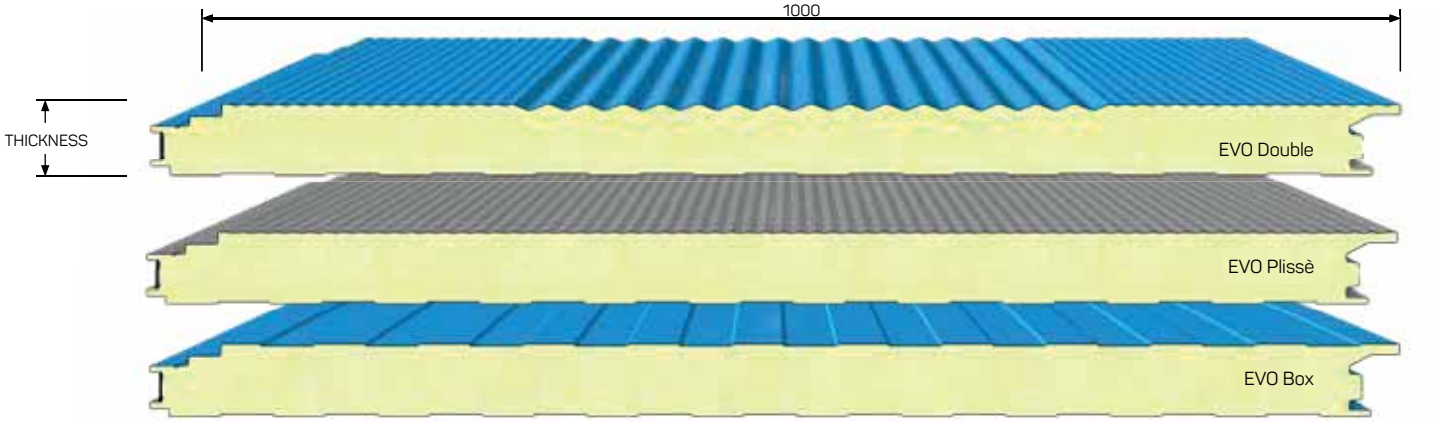
ISOPAN
INSULATING DESIGN

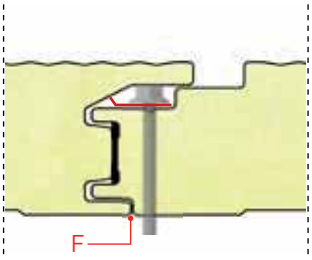
Isoparete Evo

Manufactured in: Germany

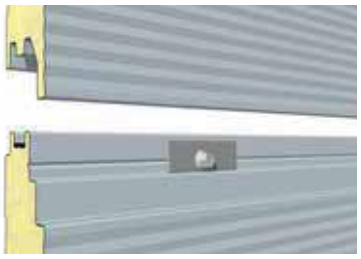


It is a self-supporting metal faced panel insulated with polyurethane foam; the labyrinth configuration and the tongue-and-groove joint with a special place for the screw determine the fully concealed fixing element. The fixing elements are concealed. It is available with different types of profile.

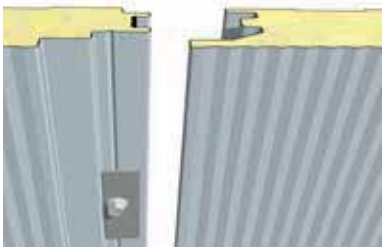




Joint detail



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 Manual available on www.isopan.com, General Sales Terms and Annexes defined by ISOPAN.

Isoparete EVO

→ see pag. 16

OVERLOAD SPANS

STEEL SHEETS 0,5 / 0,5 mm - Support 120 mm										
UNIFORMLY DISTRIBUTED LOAD	PANEL NOMINAL THICKNESS mm					PANEL NOMINAL THICKNESS mm				
	60	80	100	120	150	60	80	100	120	150
kg/m²	MAX SPANS cm					MAX SPANS cm				
50	440	550	640	730	820	520	650	740	800	900
60	410	500	590	680	765	470	590	660	710	795
80	350	440	520	600	675	410	500	550	600	675
100	320	395	470	540	605	360	440	490	510	570
120	290	360	430	490	550	320	390	430	460	515
140	265	330	395	455	510	295	360	390	420	470
160	245	310	370	425	475	265	330	360	385	430
180	230	290	345	400	450	240	305	340	360	405
200	215	270	325	375	420	215	285	315	335	375

ALUMINIUM SHEETS 0,6 / 0,6 mm - Support 120 mm										
UNIFORMLY DISTRIBUTED LOAD	PANEL NOMINAL THICKNESS mm					PANEL NOMINAL THICKNESS mm				
	60	80	100	120	150	60	80	100	120	150
kg/m²	MAX SPANS cm					MAX SPANS cm				
50	330	410	480	550	615	400	490	580	620	695
60	310	380	450	510	570	360	450	530	560	650
80	270	335	390	450	505	320	400	470	540	605
100	245	305	360	400	450	285	360	420	480	540
120	220	280	330	380	425	260	330	390	445	500
140	210	260	310	355	395	240	300	360	410	460
160	195	240	285	335	375	220	280	330	380	425
180	185	230	275	310	345	210	265	310	360	405
200	175	220	260	300	335	195	245	285	335	375

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		PANEL NOMINAL THICKNESS mm				
		60	80	100	120	150
0,5 / 0,5	kg/m²	10,8	11,6	12,4	13,2	14,4
0,6 / 0,6	kg/m²	12,6	13,4	14,2	15,0	16,2

FIRE PERFORMANCES
Regarding the specifications related to the fire characteristics, 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				
	60	80	100	120	150
W/m² K	0,41	0,29	0,23	0,19	0,15
kcal/m² h °C	0,35	0,25	0,20	0,16	0,13