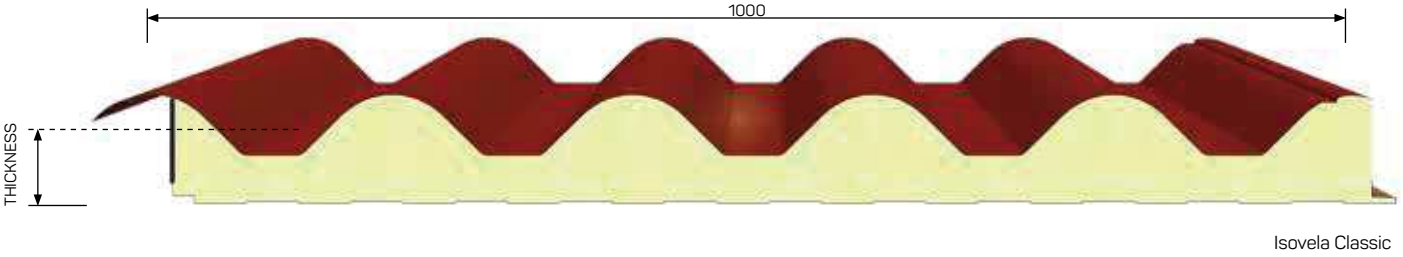
ISOPAN
INSULATING DESIGN

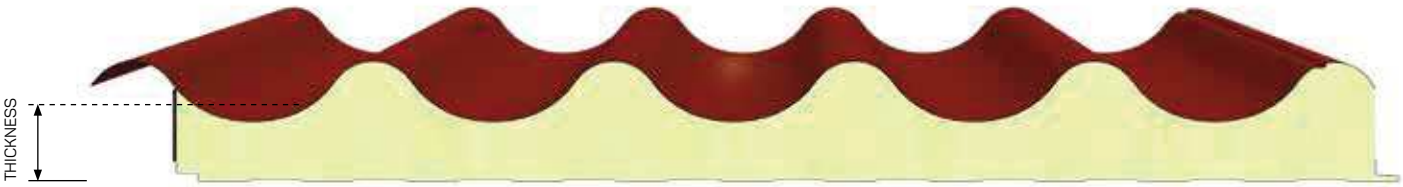
Isovela & Isovela Classic

Manufactured in: Italy

It is a self-supporting double skin roof panel, insulated with polyurethane foam, with a tongue-and-groove joint. On big longitudinal pitches, the panel overlap can be foreseen. The panel is composed by 6 waves that allow to increase the static resistance. It is available in different insulating core thicknesses for building's roofs. The assembly can be made on pitched roofs. The fixing system is a penetrating type with the possibility to use exposed caps.



Isovela Classic



Isovela

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

Isovela & Isovela Classic

→ see pag. 16

OVERLOAD SPANS

UNIFORMLY DISTRIBUTED LOAD	STEEL SHEETS 0,5 / 0,5 mm - Support 120 mm			STEEL SHEETS 0,6 / 0,5 mm - Support 120 mm		
	PANEL NOMINAL THICKNESS mm			PANEL NOMINAL THICKNESS mm		
	60	70	80	60	70	80
kg/m2	MAX SPANS cm			MAX SPANS cm		
80	420	445	470	430	470	500
100	380	410	445	400	430	460
120	360	385	415	370	400	430
140	335	365	390	350	380	400
160	320	345	370	330	355	380
180	300	325	350	315	340	360
200	290	310	335	290	320	345
220	270	300	320	270	310	330
250	240	275	300	240	270	310

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	70	80
0,4 / 0,4	kg/m2	9,3	9,7	10,1
0,5 / 0,5	kg/m2	11,1	11,5	11,9
0,6 / 0,6	kg/m2	12,9	13,3	13,7

DIMENSION TOLERANCE (EN 14509)

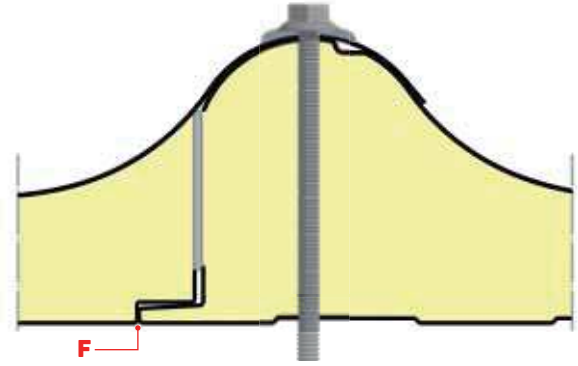
DEVIATION mm		
Length	L ≤ 3 m L > 3 m	± 5 mm ± 10 mm
Working length	± 2 mm	
Thickness	D ≤ 100 mm D > 100 mm	± 2 mm ± 2 %
Deviation from perpendicularity	6 mm	
Misalignment of the internal metal faces	± 3 mm	
Bottom sheet coupling	F = 0 + 3 mm	

L = working length, D = panels thickness, F = sheets coupling

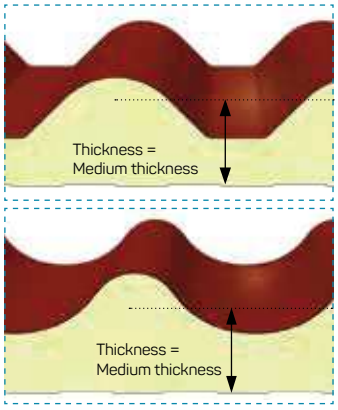
THERMAL INSULATION

According to EN 14509 A.10

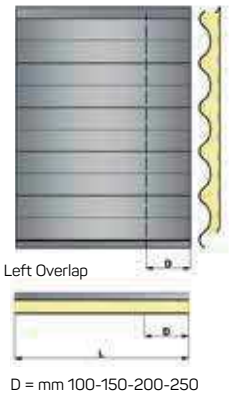
U	PANEL NOMINAL THICKNESS mm		
	60	70	80
W/m² K	0,46	0,38	0,33
kcal/m² h °C	0,40	0,33	0,29



Details of the fixing system and the coupling tolerance



ATTENTION: Nominal thickness value of Isovela and Isovela classic is referred to the the average thickness of panels



Details of the overlapping system