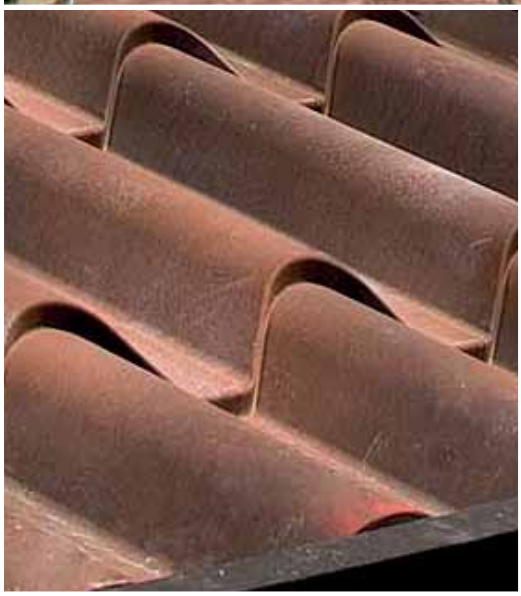
ISOPAN
INSULATING DESIGN

Isodomus & Isodomus Classic

Manufactured in: Italy



Siena - Italy

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→ see pag. 16

APPLICATION

Isodomus is appropriate for public and industrial buildings' roofs with sheds located in determined urbanised areas. It can be used for new buildings' roofs, but also for renovation of roofs that are obsolete.

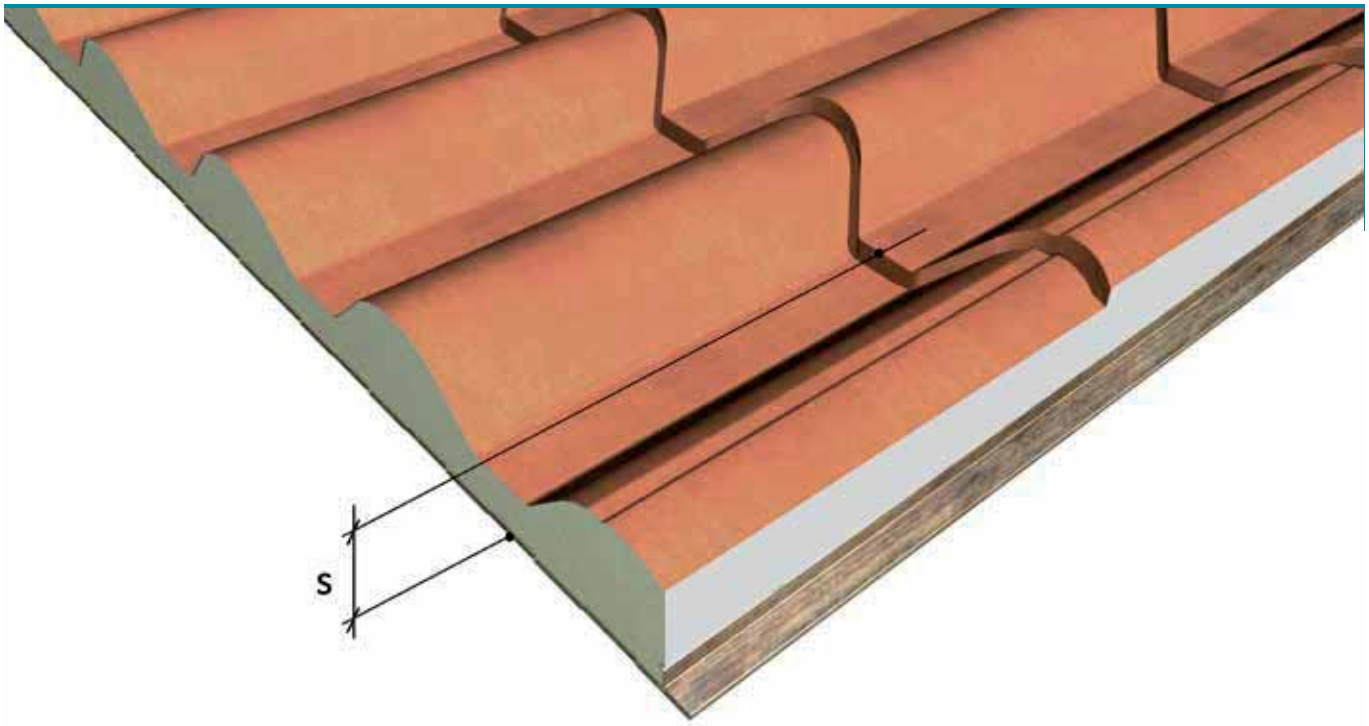
CHARACTERISTICS

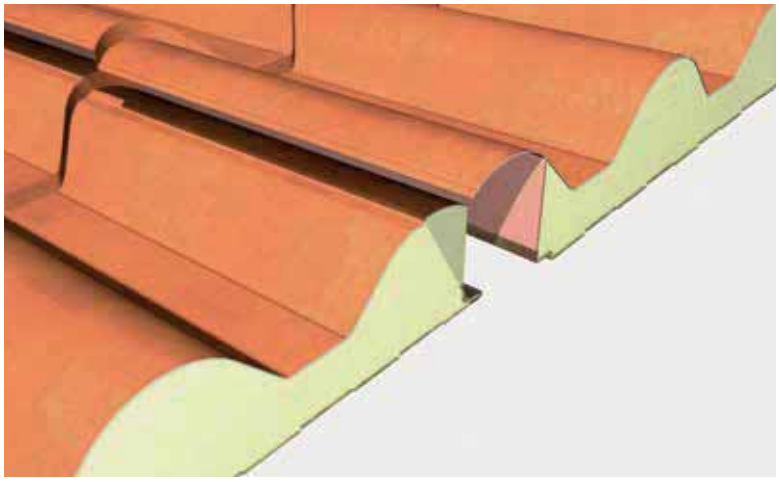
The standard tile or barrel tile shape makes this panel particular with a high aesthetic value that is suitable for public and rural sectors. The fixing system is a penetrating type with the possibility to use exposed caps, the number and the place of the fixing elements should guarantee the stresses resistance.
This range of roof panels is characterised by a wide choice of colours; particularly, colours that simulate the traditional roofs.

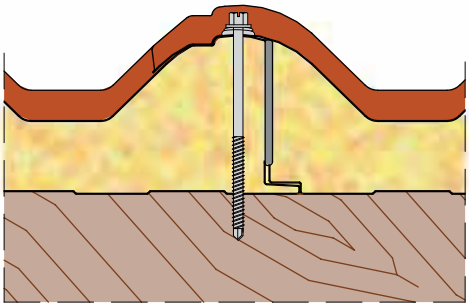
ADVANTAGES

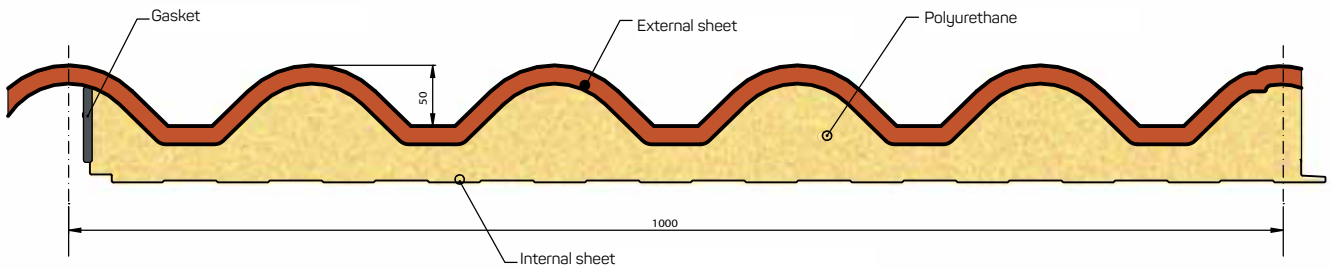
The Isodomus panel made of polyurethane foam allows a high thermal insulation. It is a functional panel fast and easy to install. Moreover, thanks to its special barrel tile shape, it can comply with the standards regarding landscape constraints.

- Architectonic quality
- Earthquake safety
- Lightness
- Versatility
- Functional reliability
- Thermal efficiency

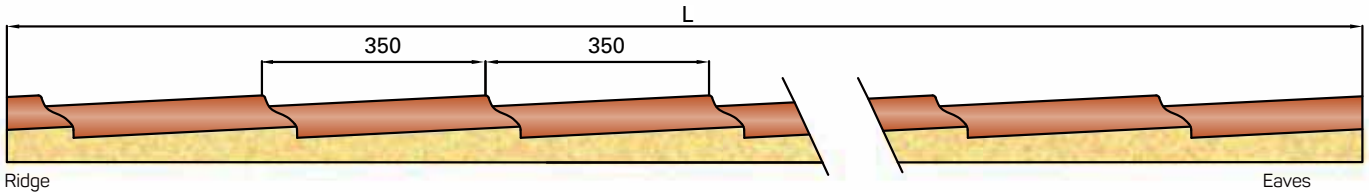








SIDE SECTION



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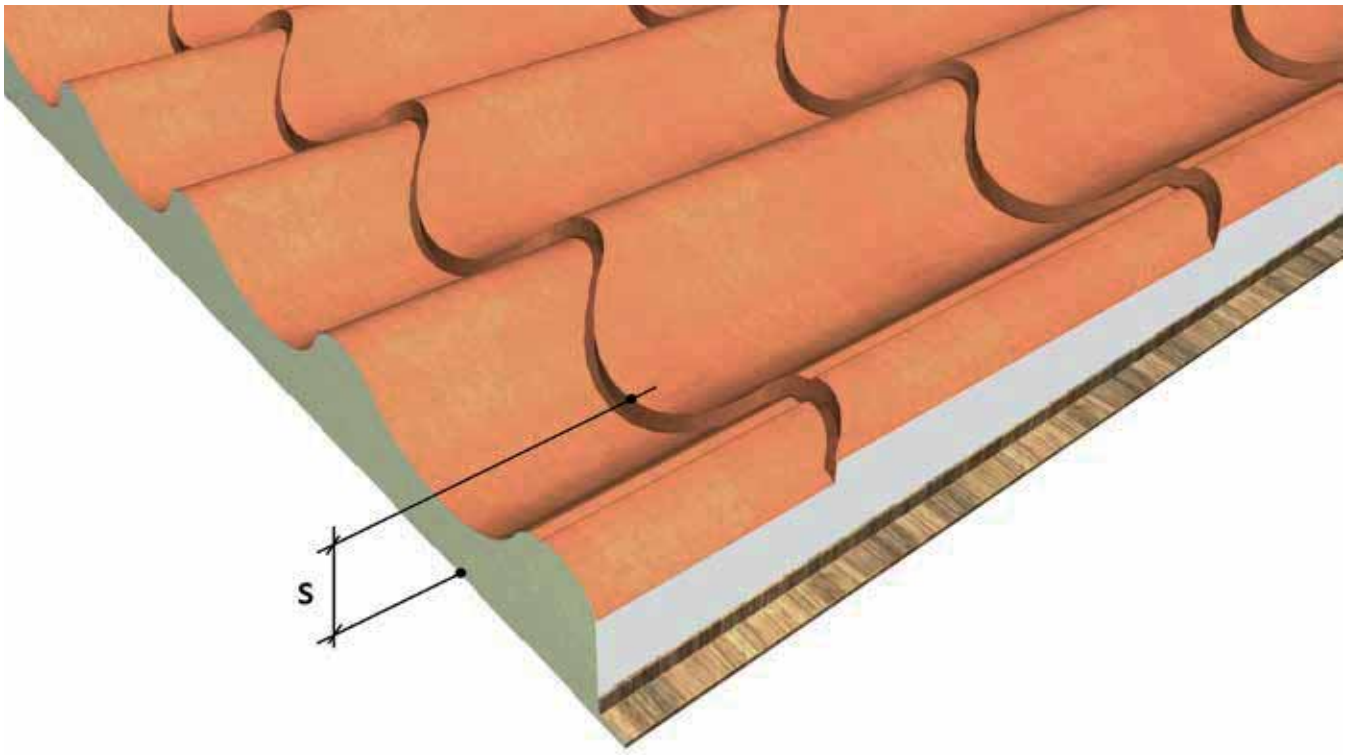

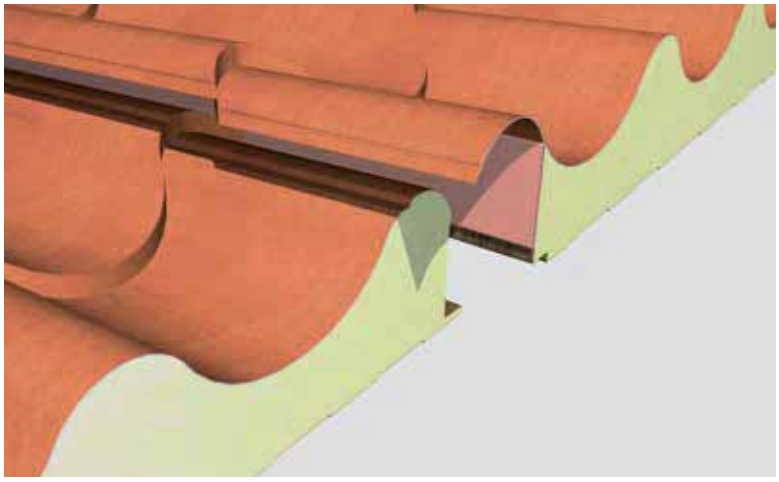

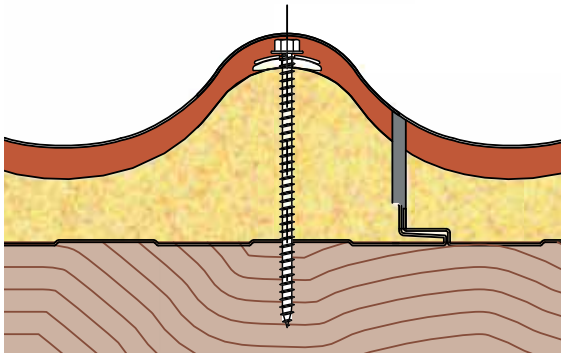

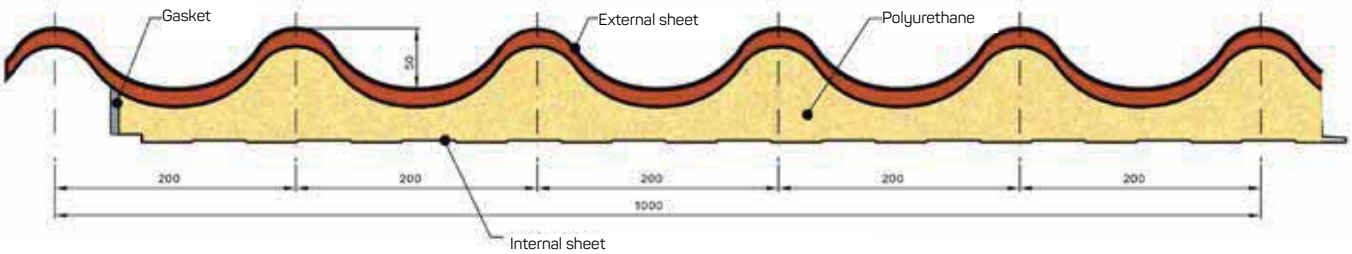

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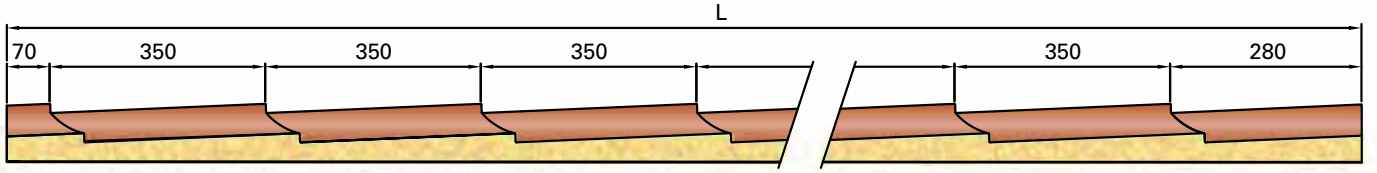
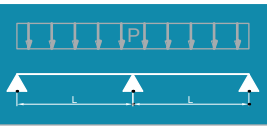


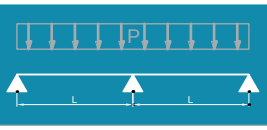
ISOPAN
INSULATING DESIGN

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.

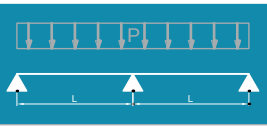
ACCEPTABLE LOADS kg/m²



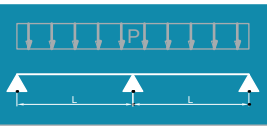
	INSULATING CORE THICKNESS mm	SPAN MM							
		1050	1400	1750	2100	2450	2800*	3150*	3500*
External steel sheet 0.5 mmm Internal steel sheet 0.4 mm	30	320	190	115	85	60			
External aluminium sheet 0.6 mm Internal steel sheet 0.4 mm	30	200	120	60					



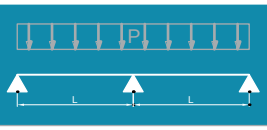
	INSULATING CORE THICKNESS mm	SPAN MM							
		1050	1400	1750	2100	2450	2800*	3150*	3500*
External steel sheet 0.5 mmm Internal steel sheet 0.4 mm	40	415	250	175	130	105	80	54	
External aluminium sheet 0.6 mm Internal steel sheet 0.4 mm	40	285	210	135	100	90	60		



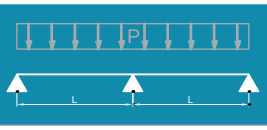
	INSULATING CORE THICKNESS mm	SPAN MM							
		1050	1400	1750	2100	2450	2800*	3150*	3500*
External steel sheet 0.5 mmm Internal steel sheet 0.4 mm	50	440	265	190	140	120	90	60	
External aluminium sheet 0.6 mm Internal steel sheet 0.4 mm	50	315	235	160	115	100	70	50	



	INSULATING CORE THICKNESS mm	SPAN MM							
		1050	1400	1750	2100	2450	2800*	3150*	3500*
External steel sheet 0.5 mmm Internal steel sheet 0.4 mm	60	500	305	230	170	145	110	75	60
External aluminium sheet 0.6 mm Internal steel sheet 0.4 mm	60	375	285	190	140	120	90	65	



	INSULATING CORE THICKNESS mm	SPAN MM							
		1050	1400	1750	2100	2450	2800*	3150*	3500*
External steel sheet 0.5 mmm Internal steel sheet 0.4 mm	80	580	430	320	260	170	140	90	70
External aluminium sheet 0.6 mm Internal steel sheet 0.4 mm	80	460	355	295	200	155	115	70	55



	INSULATING CORE THICKNESS mm	SPAN MM							
		1050	1400	1750	2100	2450	2800*	3150*	3500*
External steel sheet 0.5 mmm Internal steel sheet 0.4 mm	100	620	490	365	275	180	155	95	75
External aluminium sheet 0.6 mm Internal steel sheet 0.4 mm	100	500	390	315	230	170	125	70	60

* On grey facing, no foot traffic on spans. Deflection limit 1/200 ℓ

The indicated values, obtained after laboratory tests on panels not fixed to supports, take into account an adequate safety coefficient. We recommend, during the inspection for maintenance and roof cleaning, to be careful in order to avoid the sheet crush on the deepest ribs. It is recommend to wear shoes with rubber soles and carefully use the tools and / or equipments that could scratch the paint and the underlying zinc, impeding corrosion. It is recommended also to periodically inspect (at least once a year) the roof, to remove eventual wastes that could create unwanted stagnant water. The data's reported in the tables are only indicative. The designer has to check these data's according to the specific application.

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ISODOMUS

Weight ISODOMUS (Steel sheet)

THICKNESS SHEETS MM mm		PANEL NOMINAL THICKNESS MM				
		30	40	50	60	80
0,5 / 0,5	kg/m2	10,5	10,9	11,3	11,7	12,5

Weight ISODOMUS MONO (Steel sheet)

THICKNESS SHEETS MM mm		PANEL NOMINAL THICKNESS MM				
		30	40	50	60	80
0,5	kg/m2	7,3	7,7	8,1	8,5	9,3

ISODOMUS CLASSIC

Weight ISODOMUS classic (Steel sheet)

THICKNESS SHEETS mm		PANEL NOMINAL THICKNESS (mm)					
		30	40	50	60	80	100
0,5 / 0,5	kg/m2	10,8	11,2	11,6	12,0	12,8	13,6

Weight ISODOMUS classic MONO (lamiera acciaio)

THICKNESS SHEETS mm		PANEL NOMINAL THICKNESS (mm)					
		30	40	50	60	80	100
0,5	kg/m2	7,6	8,0	8,4	8,8	9,5	10,3

ISODOMUS - ISODOMUS CLASSIC

THERMAL INSULATION (K)
EN ISO 6946

K	PANEL NOMINAL THICKNESS (mm)					
	30	40	50	60	80	100
W / m² K	0,47	0,36	0,31	0,27	0,23	0,17
Kcal / m² h °C	0,40	0,32	0,27	0,23	0,20	0,15

THERMAL INSULATION (U)
UNI EN 14509:2007 A.10

U	PANEL NOMINAL THICKNESS(mm)					
	30	40	50	60	80	100
W / m² K	0,55	0,43	0,38	0,29	0,24	0,19
Kcal / m² h °C	0,47	0,37	0,32	0,25	0,21	0,16

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.

STANDARD LENGTHS

PANEL STANDARD LENGTHS mm													
2100	2450	2800	3150	3500	3850	4200	4550	4900	5250	5600	5950	6300	6650
7000	7350	7700	8050	8400	8750	9100	9450	9800	10150	10500	10850	11200	11550
11900	12250	12600	12950	13300