

Isodomus and Isodomus Classic



Renovation of an agricultural building in Pienza

Detail of the roof



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The Isodomus panel represents the best aesthetic evolution of an insulating roofing panel made for public construction.

The design, with a standard tile or barrel tile shape, allows the creation of functional roofs that are aesthetically pleasing, light, safe, waterproof and fast and easy to install. The possibility for integration of many finishing accessories makes it an extremely complete and flexible solution. Thanks to its polyurethane core, it offers high values of thermal insulation.



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.

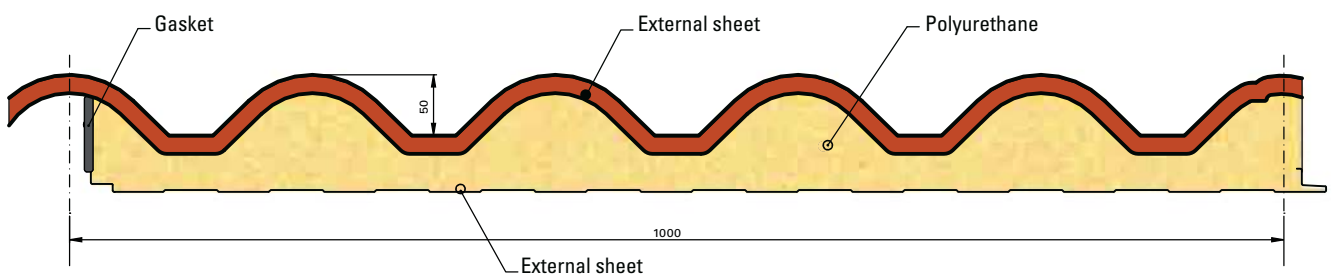
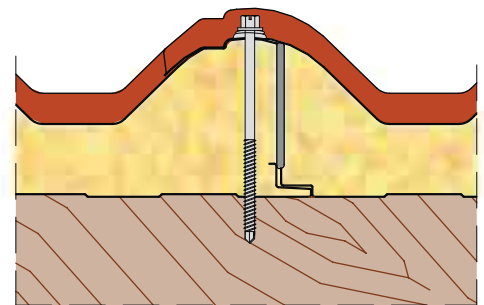
CHARACTERISTICS

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.

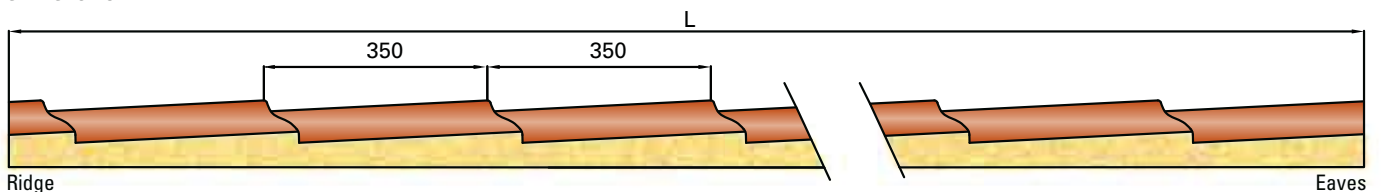
ADVANTAGES

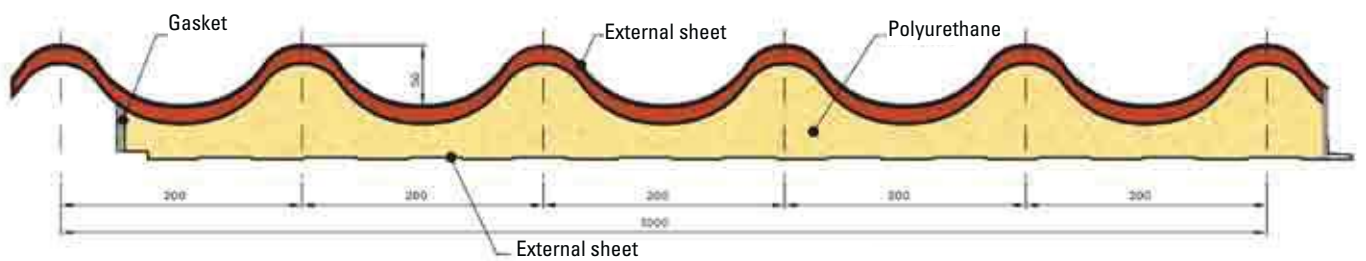
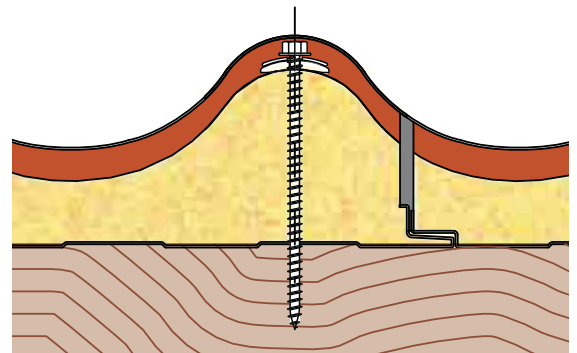
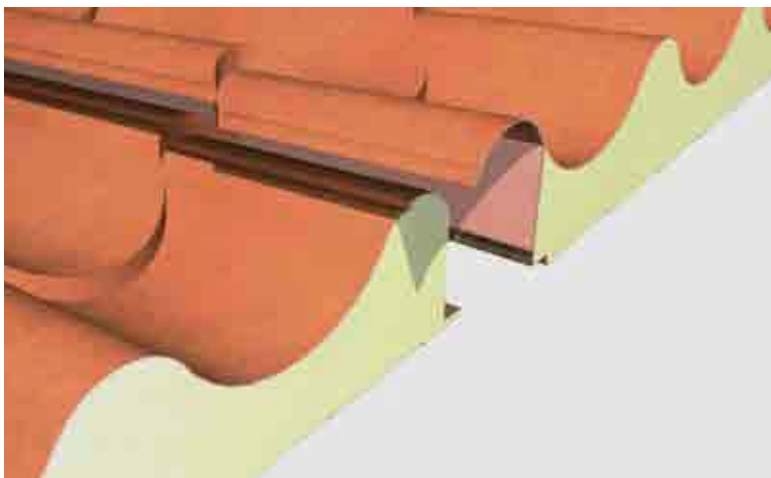
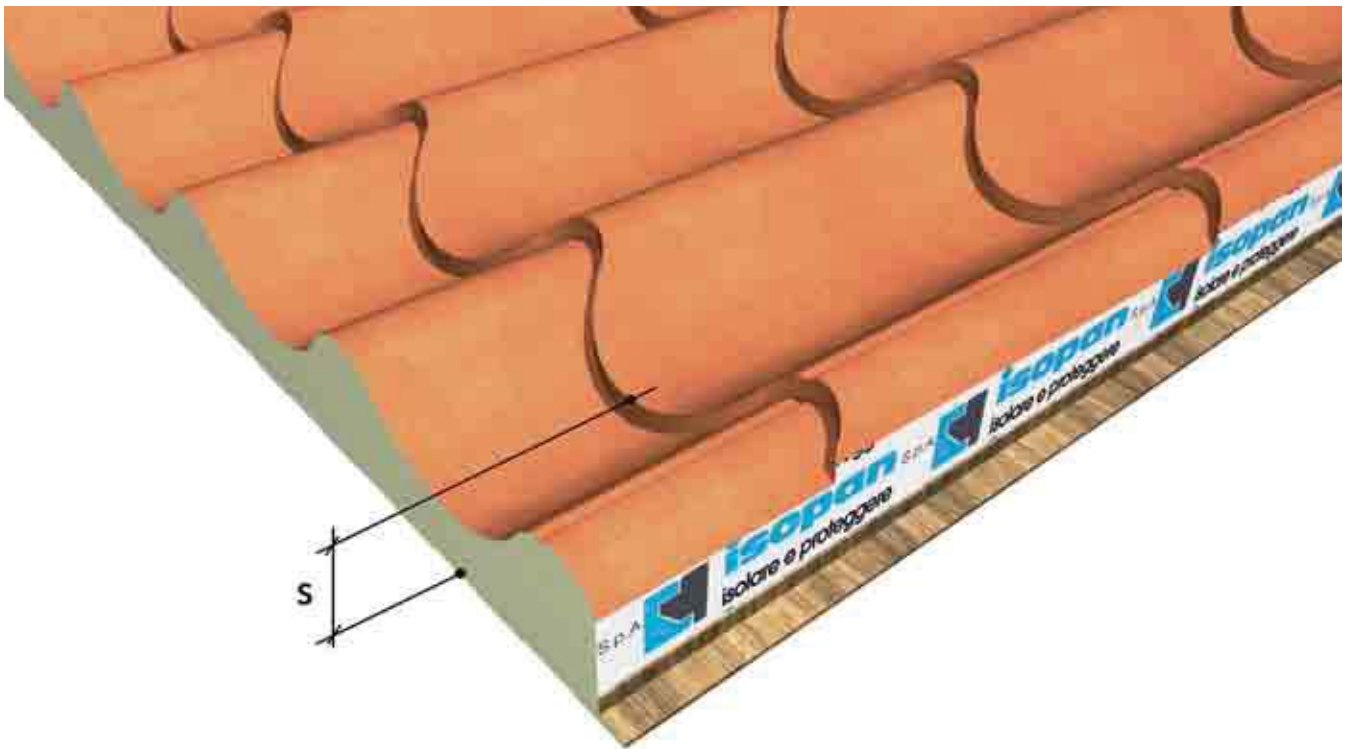
The Isodomus panel made of polyurethane foam allows a high thermal insulation. It is a functional panel fast and easy to install. Moreover, thanks to its special barrel tile shape, it can comply with the standards regarding landscape constraints.

- Architectonic quality
- Earthquake safety
- Lightness
- Versatility
- Functional reliability
- Low cost solution
- Thermal efficiency

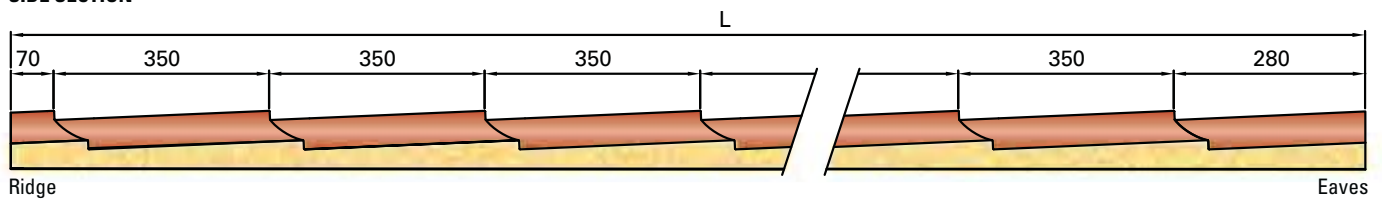


SIDE SECTION





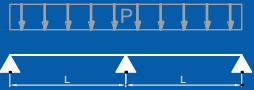
SIDE SECTION



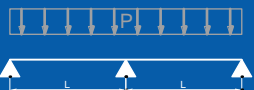
INSTRUCTIONS OF USE

For the use of the panels and the related limits, please consult the technical data sheet available on www.isopan.it under the section "technical data sheet" and the "recommendations for the assembly of ribbed sheets and metal faced insulating panels" defined by AIPPEG Association of Italian Producers of Panels and Ribbed Elements).

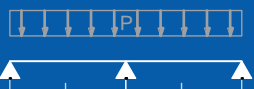
ACCEPTABLE LOADS kg/m²



	INSULATING CORE THICKNESS mm	SPAN mm							
		1050	1400	1750	2100	2450	2800*	3150*	3500*
External steel sheet 0.5 mm Internal steel sheet 0.4 mm	40	440	314	237	176	121	95	68	53
External aluminium sheet 0.6 mm Internal steel sheet 0.4 mm	40	319	264	253	187	126	74	58	42
External copper sheet 0.5 mm Internal steel sheet 0.4 mm	40	462	330	253	182	116	84	63	47



	INSULATING CORE THICKNESS mm	SPAN mm							
		1050	1400	1750	2100	2450	2800*	3150*	3500*
External steel sheet 0.5 mm Internal steel sheet 0.4 mm	50	463	333	257	193	134	106	77	59
External aluminium sheet 0.6 mm Internal steel sheet 0.4 mm	50	349	294	285	210	143	85	66	48
External copper sheet 0.5 mm Internal steel sheet 0.4 mm	50	497	363	282	204	131	96	71	50



	INSULATING CORE THICKNESS mm	SPAN mm							
		1050	1400	1750	2100	2450	2800*	3150*	3500*
External steel sheet 0.5 mm Internal steel sheet 0.4 mm	60	528	386	311	234	164	131	94	73
External aluminium sheet 0.6 mm Internal steel sheet 0.4 mm	60	419	355	353	258	177	105	83	60
External copper sheet 0.5 mm Internal steel sheet 0.4 mm	60	631	468	342	246	160	120	88	58

* 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 recommended 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.

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	

PANELS WEIGHT

ISODOMUS

ISODOMUS PANELS WEIGHT *(steel sheet)*

SHEET THICKNESS	WEIGHT	PANEL NOMINAL THICKNESS S mm		
		40	50	60
0,5	kg/m ²	10,9	11,3	11,7

ISODOMUS MONO-SHEET PANELS WEIGHT *(steel sheet)*

SHEET THICKNESS	WEIGHT	PANEL NOMINAL THICKNESS S mm		
		40	50	60
0,5	kg/m ²	7,7	8,1	8,5

ISODOMUS CLASSIC

ISODOMUS PANELS WEIGHT *(steel sheet)*

SHEET THICKNESS	WEIGHT	PANEL NOMINAL THICKNESS S mm		
		40	50	60
0,5	kg/m ²	11,2	11,6	12,0

ISODOMUS MONO-SHEET PANELS WEIGHT *(steel sheet)*

SHEET THICKNESS	WEIGHT	PANEL NOMINAL THICKNESS S mm		
		40	50	60
0,5	kg/m ²	8,0	8,4	8,8

DIMENSION TOLERANCE (in accordance with EN 14509)

DEVIATION mm	
Length	L ≤ 3 m ± 5 mm
	L > 3 m ± 10 mm
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

L means the working length, D means the panels thickness and F means the sheets coupling

AVAILABLE COLOURS (the colour should be chosen according to the final-use, the installation area and the standard thicknesses in stock)

bianco grigio	bianco G9002	bianco G9010	avorio chiaro G1015	testa di moro	blu grigiastro G5008	grigio antracite G7016
						
blu genziana G5010	verde muschio G6005	verde antico	rosso ossido G3009	rosso antico	reale antico	
						