





## DESCRIPTION

Roof panel with an external sheet of imitation tile and **insulating core made of high-density PUR or PIR foam**, about 40 kg/m<sup>3</sup>. It is a sandwich panel with a very high aesthetic finish, with great mechanical resistance and high thermal insulation.

Thanks to all this, it is especially recommended for residential use. We have **several exterior finishes** (outer side), such as Red Tile, Aged Albero or Gray Slate, while the inner side can be made in **standard colours or in imitation Wood**.

Assembly is very simple, **since one panel overlaps the next one**, and is screwed directly into the structure. In this way, costs are reduced and at the same time a spectacular result is obtained.

## TECHNICAL DATA OF RED TILE PANEL

Outer Side	Inner Side	Insulation	Average Thickness	Length
Pre-lacquered steel	Pre-lacquered steel	Polyurethane (PUR) and Polyisocianurate (PIR)	45 / 55 / 65	Up to 16,2 m
Available colours				
 Red Tile RAL 8004	 Aged Albero	 Gray Slate RAL 7022	 Imitation Wood (inner side)	

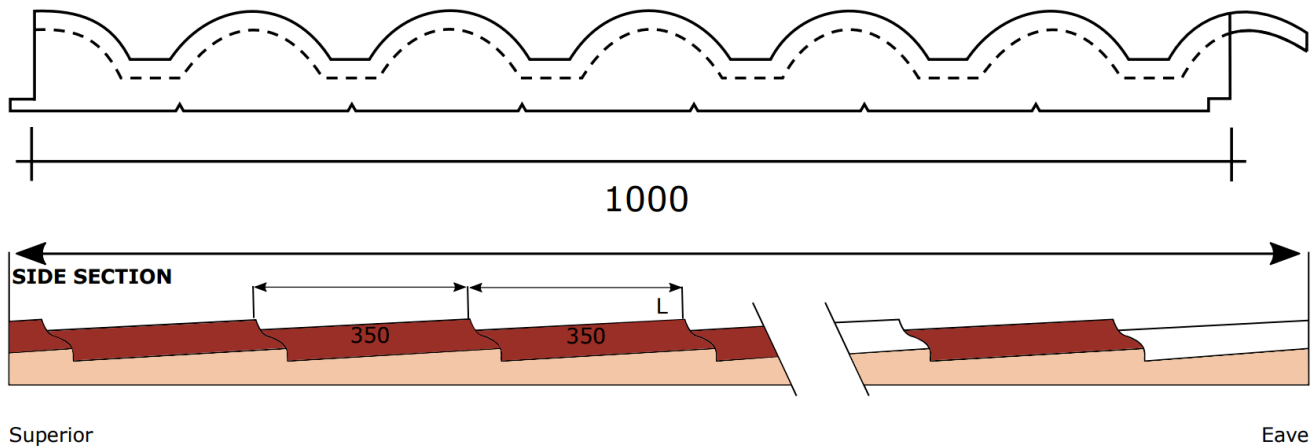
	Thickness (mm)		
	45	55	65
Length (mm)	Standard 2100 to 16000		
Width (mm)	1000		
Core density (kg/m <sup>3</sup> )	40 (±2)		
Thermal conductivity (W/mK)	0,025		
Coefficient of thermal transmission (W/m <sup>2</sup> k)	0,48	0,38	0,32
Panels per standard package	10	9	8
Weight (kg/m <sup>2</sup> )	9,88	10,26	10,65
Reaction to Fire (PUR-UNE 13501-1)	Bs3d0		Cs3d0
Reaction to Fire (PIR-UNE 13501-1)	Bs2d0		

Deviation (mm)		
Length	L ≤ 3 m	± 5 mm
	L > 3 m	± 10 mm
Usable width	± 2 mm	
Thickness	D ≤ 100 mm	± 2 mm
	D > 100 mm	± 2 %
Deviation from perpendicularity	6 mm	
De-linearization of the internal metallic parameters	± 3 mm	
Coupling of bottom plates	F = 0 +3 mm	

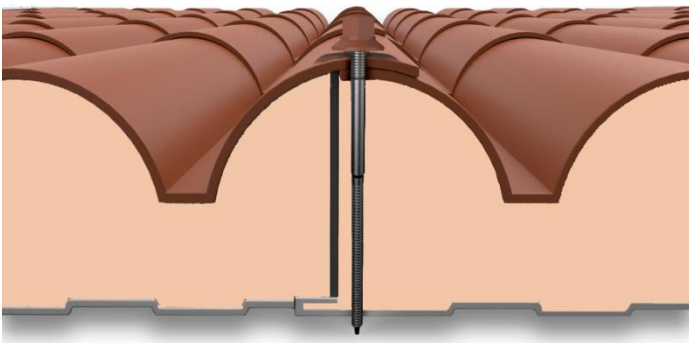
## LOAD TABLE OF RED TILE PANEL

Thickness (mm)	Ligth (mm) for 1 hollow						
	1	1,2	1,4	1,6	1,8	2	2,2
45	231	188	157	135	118	105	93
55	253	205	172	147	129	115	101
65	275	223	186	160	139	123	112

## CROSS SECTION OF RED TILE PANEL



## OVERLAP



## INSTALLATION



In the installation and assembly process of the Tile Panel, we must ensure the correct overlap between two adjacent plates, so that the **EPDM joint** protects from possible condensations. The panel is attached directly to the structure from the highest point of the tile with the provided **self-drilling screws that ensure a correct fixing**. Although polyurethane is not a hydrophilic material, it is recommended to complete the installation with the appropriate accessories and endings to guarantee maximum protection during the long life of the material.

## PHOTO



See our range of sandwich panels and accessories on our website <https://sandwich-panel.net>