





DESCRIPTION

Insulated External Wall Panel with hidden bolting system that provides a homogeneous finish to the project. Its insulating core is made of high density PUR and PIR foams, **at 40 kg/m³, to ensure outstanding thermal insulation in all situations.**

Its simple assembly saves the customer a great deal of money: **the panel incorporates a tongue-and-groove joint system** that facilitates the joining of the panels while hiding the screws and preventing the screws and prevents leaks or dampness. It can be installed vertically and horizontally; Some customers even install this façade panel in the roof position.

The panels are manufactured using galvanized and pre-painted special steels, complying with **EN 508-1 standard**, with PET coatings, Plastisol, PVC, PVDF, PS50, PS55 and PS200, among others, according to customer requirements.

TECHNICAL DATA OF THE INSULATED INTERNAL WALL PANEL

Outer Side	Inner Side	Insulation	Thickness	Length	
Pre-lacqued steel	Pre-lacqued steel	Polyurethane (PUR) and Polyisocianurate (PIR)	35 / 40 / 50 / 60 / 80 / 100	Up to 16,2 m	
Most popular colours					
 White Pyrenees	 Blue Lake	 Red Tile	 Silver Metallic		

	Thickness (mm)					
	30	40	50	60	80	100
Length (mm)	Standard 2500 to 16000					
Width (mm)	1100					
Core density (kg/m ³)	40 (±2)					
Thermal conductivity (W/mK)	0,025					
Coefficient of thermal transmission (W/m ² k)	0,59	0,52	0,42	0,36	0,27	0,21
Weight (kg/m ²)	10,80	11,00	11,40	11,80	12,60	13,40
Reaction to Fire (PUR-UNE 13501-1)	Cs3d0 (estándar del PUR)					

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

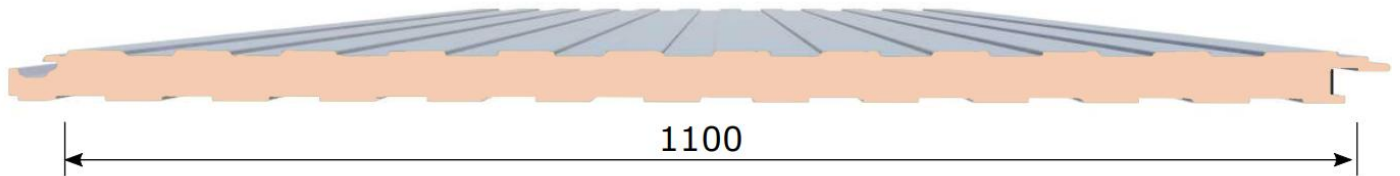
Acoustic Insulation						
Experimental values for 30 mm Sandwich Panel						
Frequency (Hz)	125	250	500	1000	2000	4000
Sound insulation (dB)	25	27,5	29	28,5	31	37,5

LOADS TABLES OF THE INSULATED EXTERNAL WALL PANEL

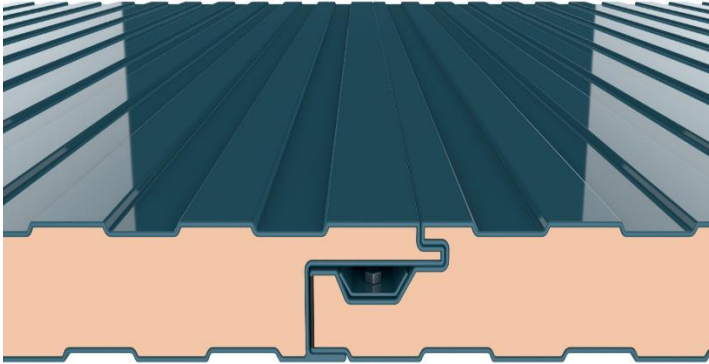
Thickness (mm)	Light for 1 span						
	1,5	2	2,5	3	3,5	4	4,5
35	327/327	193/193	121/121	79/79	54/54	38/38	27/27
40	396/396	239/239	153/153	102/102	70/70	49/49	36/36
50	541/541	337/337	221/221	151/151	106/106	77/77	57/57
60	587/690	440/440	295/295	206/206	147/147	108/108	81/81
80	587/933	440/656	352/450	293/312	229/229	176/176	137/137
100	587/933	440/656	352/450	293/312	229/229	176/176	137/137

Thickness (mm)	Light for 2 span						
	1,5	2	2,5	3	3,5	4	4,5
35	234/366	188/238	157/163	116/96	85/60	63/41	47/29
40	227/437	183/287	154/200	133/210	107/74	77/49	57/35
50	214/581	175/389	148/277	128/173	113/105	101/69	76/49
60	203/699	167/495	142/337	123/234	109/141	98/92	89/64
80	185/933	154/700	132/450	115/312	130/228	93/146	84/100
100	185/933	154/700	132/450	115/312	130/228	93/146	84/100

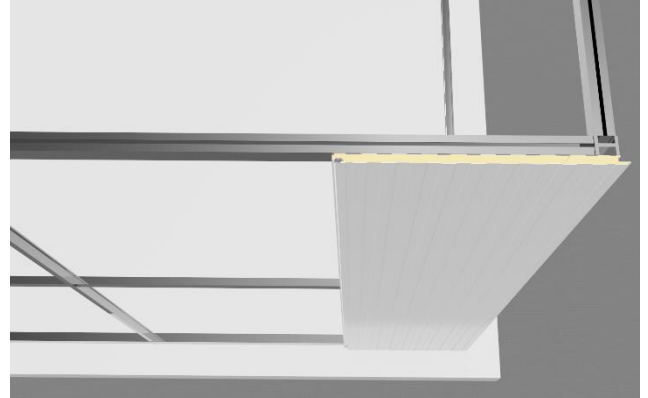
CROSS SECTION OF THE INSULATED EXTERNAL WALL PANEL



PANEL JOINTS



INSTALLATION



Our Insulated Wall Panels have a special tongue and groove system that, in addition to hiding the head of the screws for a uniform appearance, allows for a perfect coupling between one sandwich panel and another. This helps **to reduce all kinds of leaks, dampness or thermal leakage** by outstandingly sealing the joint area. In addition, our Insulated Panels have been optimized in their production process so that they can be directly fixed to the structure thanks to the self-drilling screws we provide. This means a very significant time saving, which will reduce the customer's budget.

PHOTOS



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