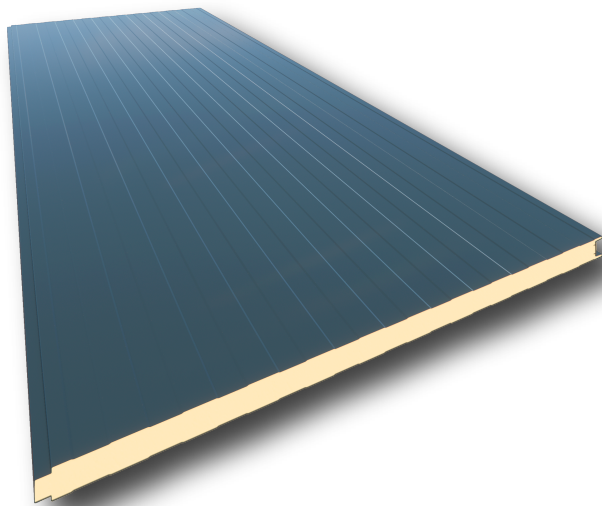


WALL
FAÇADE PANEL

EXTERIOR FACE
 Pre-painted steel

INSULATION
 Polyurethane (PUR) and Polyisocyanurate (PIR)

INTERIOR FACE
 Pre-painted steel

THICKNESSES mm (in.)
30/40/50
 (1.18/1.57/1.97)

USEFUL WIDTH
 1000 mm (39.37 in.)

USE
 Façades, prefabricated homes, false ceilings

TECHNICAL SPECIFICATIONS

Panel for façade cladding comprised of 2 steel sheets and a polyurethane (PUR) or polyisocyanurate (PIR) insulating foam core on the inside which guarantees maximum thermal insulation. It can be installed both vertically and horizontally. In both cases, the connection between the panels is by means of a tongue-and-groove joint with a screwing system with a visible fastening. It is recommended for use in prefabricated homes, false roofs and for partitioning.

MAIN CHARACTERISTICS OF THE 30 mm (1.18 in.) PANEL

Nominal thickness	30 mm (1.18 in.) (± 3 mm/0.12 in.)
Average foam density	40 kg/m ³ (±10%)
Weight	11.00 kg/m ²
Volume	30 m ³ /m ³
Useful width	1000 mm (39.37 in.) (± 3 mm/0.12 in.)
Straightness	0 mm (± 5 mm/0.20 in.)
Contraction - Inflection lengthwise	0 mm (± 5 mm/0.20 in.)
Compressive strength	0.096 MPa
Tensile strength	0.092 MPa
Fire resistance PUR-UNE 13501-1	until B-s2-d0 *
Fire resistance PIR-UNE 13501-1	until B-s1-d0 *

(*) consult regarding other classifications

THERMAL INSULATION AND WEIGHT

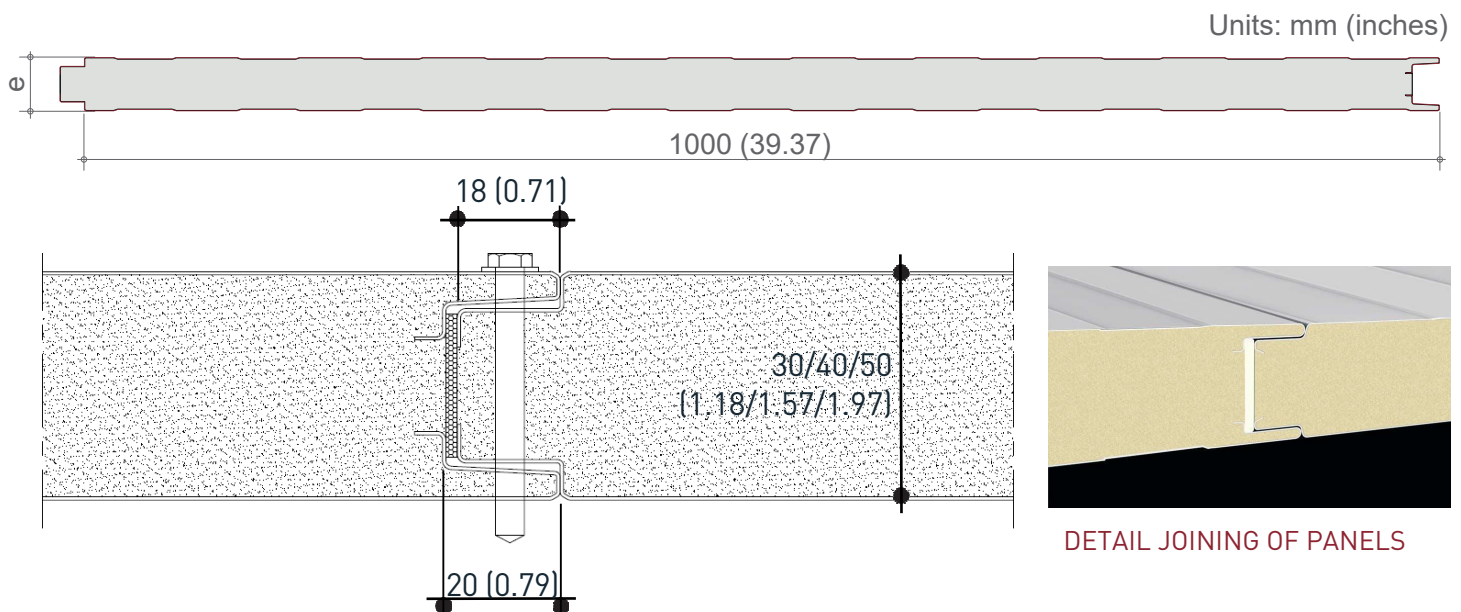
RIBBED PANEL	HEAT TRANSFER		WEIGHT(0.5/0.5)
Nominal thickness in mm (in.)	K in Kcal/m ² .h. °C	K in W/m ² .k	Kg/m ²
30 (1.18)	0.58	0.68	11.00
40 (1.57)	0.45	0.53	11.40
50 (1.97)	0.37	0.44	11.80

The weight includes the proportional part of the accessory elements.

ACOUSTIC INSULATION
EXPERIMENTAL VALUES FOR THE 35 mm PANEL

Frequency Hz	125	250	500	1000	2000	4000
Acoustic insulation db	25	27.5	29	28.5	31	37.5

Standard panel of 35 mm thickness. Mean (TL) 28.8 db

GEOMETRIC CHARACTERISTICS

DETAIL JOINING OF PANELS

HIANSA PANEL S.A. reserves the right at all times to make changes to this document without prior notice.

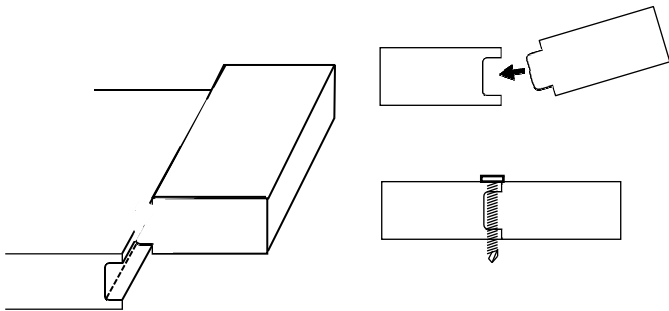
STANDARDS APPLIED

Ref. Standard	Description
EN 14509- 2014	Metal double-sided insulated self-supporting sandwich panel. Products made at the factory. Specifications.
EN 13823	Reaction to fire tests of construction products. Construction products, excluding floor coverings exposed to thermal attack caused by a single burning object.
EN 10169	Flat steel products, continuous coated with organic materials (pre-painted). Technical supply conditions.
EN 13501	Classification based on the fire performance of construction products and building elements. Part 1.

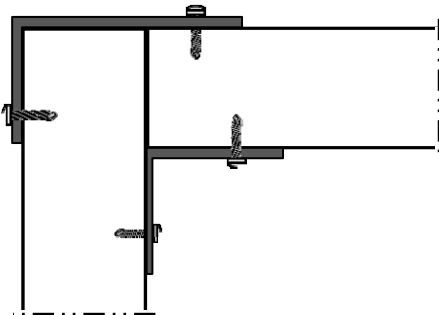
CONSTRUCTION DETAILS

The panel can be mounted both vertically and horizontally by means of the tongue-and-groove joint, ensuring in both cases the continuity of the wall, which guarantees optimal thermal and acoustic performance.

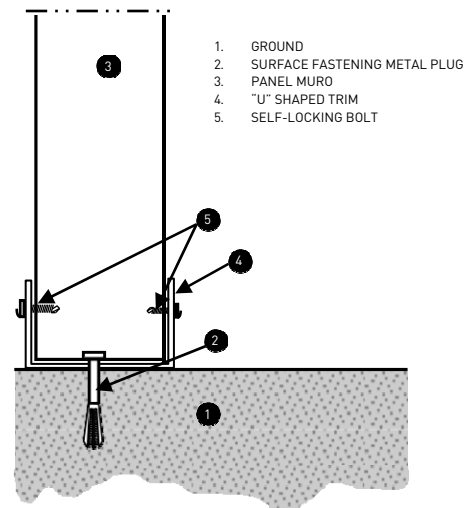
JOINING OF PANELS



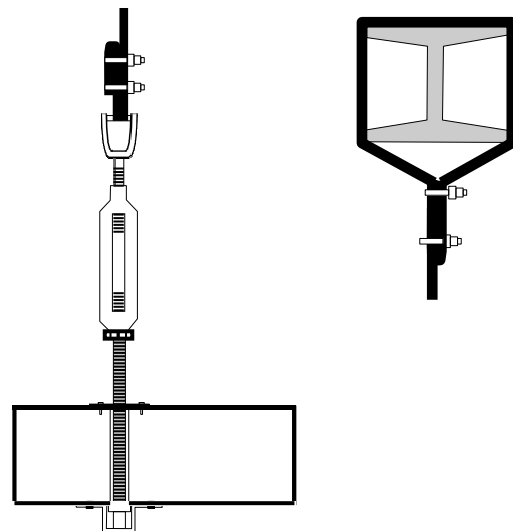
DETAIL OF CORNER



PANEL JOINT - SURFACE



ROOFING SUPPORT DETAIL PANEL



RESISTANCE TABLES

	30/ ECO (kg/m ²)		40/ ECO (kg/m ²)		50/ ECO (kg/m ²)	
	1 Opening	2 Openings	1 Opening	2 Openings	1 Opening	2 Openings
	Pressure/Suction	Pressure/Suction	Pressure/Suction	Pressure/Suction	Pressure/Suction	Pressure/Suction
L						
1.4	135/135	95/154	183/183	140/168	254/254	155/183
1.6	103/103	70/124	140/140	100/146	195/195	113/159
1.8	81/81	53/95	111/111	76/129	154/154	87/140
2.0	66/66	42/75	90/90	59/106	125/125	77/115
2.2	55/55	34/60	74/74	48/85	103/103	75/93
2.4	46/46	28/50	62/62	39/70	87/87	60/77
2.6	39/39	24/42	53/53	33/59	73/73	51/66
2.8	34/34	20/36	46/46	28/50	64/64	43/62
3.0	29/29	17/31	40/40	24/43	56/56	37/60
3.2	26/26	15/27	35/35	21/37	49/49	32/53
3.4	22/22	13/24	31/31	18/33	43/43	28/47
3.6	19/19	12/21	28/28	16/29	39/39	24/42
3.8	16/16	11/19	25/25	15/26	34/34	23/37

	30/0.4-0.4 (kg/m ²)		40/0.4-0.4 (kg/m ²)		50/0.4-0.4 (kg/m ²)	
	1 Opening	2 Openings	1 Opening	2 Openings	1 Opening	2 Openings
	Pressure/Suction	Pressure/Suction	Pressure/Suction	Pressure/Suction	Pressure/Suction	Pressure/Suction
L						
1.4	199/199	156/156	271/271	170/170	342/342	185/185
1.6	152/152	126/135	207/207	147/147	262/262	160/160
1.8	120/120	95/119	164/164	130/130	207/207	141/141
2.0	98/98	75/107	133/133	107/116	168/168	125/125
2.2	81/81	60/92	110/110	85/105	139/139	112/113
2.4	68/68	49/76	92/92	70/96	117/117	91/103
2.6	57/57	41/64	79/79	58/88	99/99	76/95
2.8	47/47	35/54	68/68	49/76	86/86	64/88
3.0	40/40	30/47	59/59	42/65	75/75	55/82
3.2	33/33	26/41	52/52	37/57	66/66	48/73
3.4	29/29	23/36	46/46	32/50	58/58	42/64
3.6	24/24	21/32	41/41	29/44	52/52	37/57
3.8	21/21	18/28	37/37	25/39	46/46	33/50

	30/0.5-0.5 (kg/m ²)		40/0.5-0.5 (kg/m ²)		50/0.5-0.5 (kg/m ²)	
	1 Opening	2 Openings	1 Opening	2 Openings	1 Opening	2 Openings
	Pressure/Suction	Pressure/Suction	Pressure/Suction	Pressure/Suction	Pressure/Suction	Pressure/Suction
L						
1.4	250/250	157/157	344/344	172/172	415/415	187/187
1.6	194/194	136/136	283/283	149/149	338/338	162/162
1.8	153/153	120/120	223/223	131/131	266/266	142/142
2.0	122/122	107/107	181/181	117/117	216/216	135/126
2.2	99/99	92/97	150/150	105/105	179/179	132/113
2.4	81/81	75/88	126/126	96/96	151/151	117/103
2.6	67/67	63/81	107/107	88/88	127/127	106/95
2.8	56/56	53/74	92/92	75/82	110/110	90/94
3.0	47/47	46/63	80/80	64/76	96/96	77/93
3.2	40/40	40/55	68/68	56/71	82/82	67/87
3.4	34/34	35/48	59/59	49/67	71/71	59/81
3.6	29/29	31/43	51/51	43/60	62/62	51/73
3.8	25/25	28/38	44/44	38/53	53/53	46/64

Permissible service loads, uniformly distributed in kg/m². The tables have been obtained based on a calculation methodology established in accordance with the provisions of the EAE-2012 standard and the EC-3, considering only the upper steel sheet as a structural element. These results comply with the Ultimate Limit States of normal and tangential stresses prescribed in said standards and with a limitation of the Serviceability Limit State for deformations of L/200.