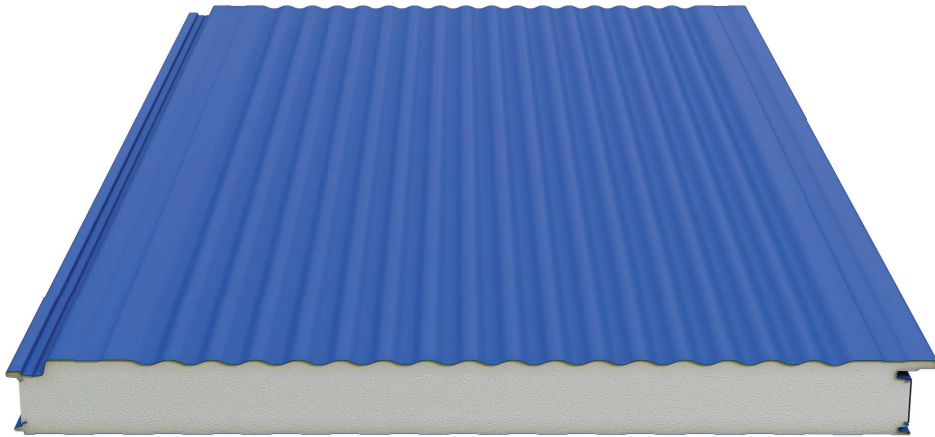


W Sinus-UK Wall Panel



Product Information

The wall panels are suitable for use on walls due to the system that conceals joint elements. The ability to use them both laterally and vertically provides assembly flexibility and good solutions for designers. It provides an aesthetically pleasing appearance on the facade with its sinusoidal shape..

Production Plant

UK

Product Application

- Industrial Buildings
- Military Buildings
- Public Buildings
- Agricultural Buildings
- Sports Facilities
- Construction Site Buildings
- Silos
- Hypermarkets
- Shopping Centers
- Storehouse Halls
- Administrative Buildings

and all other concrete structures with steel or prefabricated load bearing systems.

Performance Advantages

Has the best thermal insulation values.

Fast and problem-free assembly saves time and labor.

The colorful surface eliminates the need for additional coatings like plaster and paint.

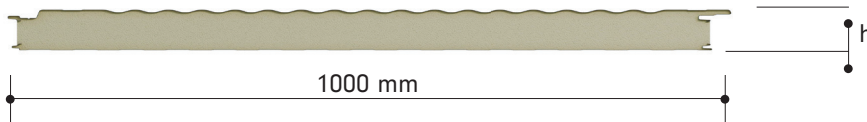
Color options available in the RAL catalogue.

Surface paint options available according to application (Polyester, PvdF, Plastisol, PVC).

Applicable both laterally and vertically.

The fastening elements being concealed provides visual advantage on walls.

Measurements



h: 40-50-60-80-100-120-140-160-180-200 mm

Modular Width	1,000 mm
Minimum Length	2 meters
Maximum Length	Depends on transport conditions.

SmartCore – PIR Properties

Density (EN 1602)	PIR: 40 (± 2) kg/m ³ & SmartCore: 41 (± 2) kg/m ³
Thickness	40-50-60-80-100-120-140-160-180-200 mm
Thermal Conductivity (EN 13165)	PIR: 0.022-0.024 & SmartCore: 0.018-0.019 W/mK
Reaction to Fire (13501)	PIR: B-s2,d0 & SmartCore: B-s2,d0

Thermal Conductivity Table for SmartCore Panels

Panel Thickness	U Thermal Conductivity (W/m ² K)	R Thermal Conductivity (m ² K/W)	R Thermal Conductivity (ft ² °F h/Btu)
40 mm	0,52	2,39	13,58
50 mm	0,42	2,95	16,74
60 mm	0,36	3,50	19,89
80 mm	0,24	4,61	26,20
100 mm	0,19	5,73	32,51
120 mm	0,15	6,84	38,82
140 mm	0,13	7,95	45,13
160 mm	0,11	9,06	51,44
180 mm	0,10	10,17	57,75
200 mm	0,09	11,28	64,05

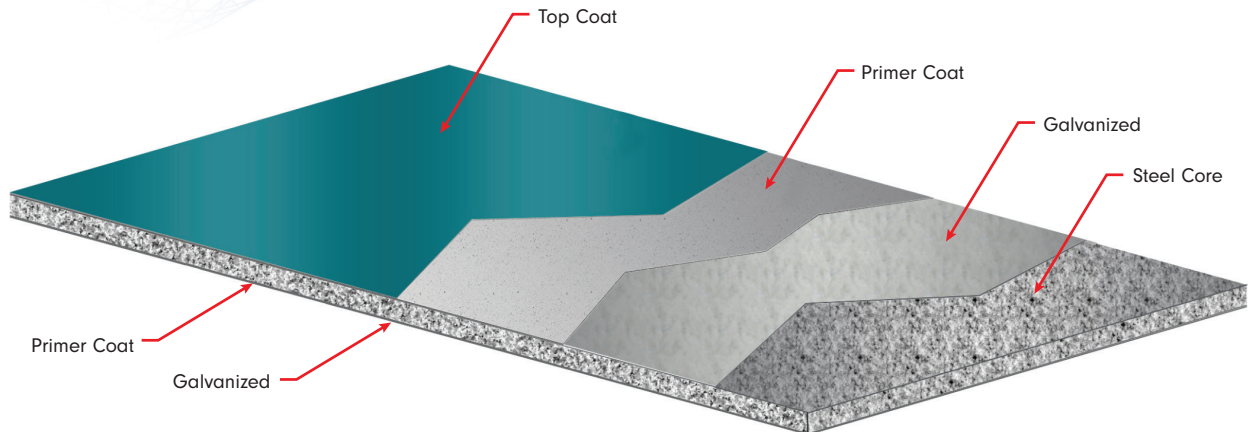
The relevant values were calculated based on a value of 0.018 W/m²K.

Thermal Conductivity Table for PIR Panels

Panel Thickness	U Thermal Conductivity (W/m ² K)	R Thermal Conductivity (m ² K/W)	R Thermal Conductivity (ft ² °F h/Btu)
40 mm	0,63	1,99	11,29
50 mm	0,51	2,44	13,87
60 mm	0,43	2,90	16,45
80 mm	0,29	3,81	21,61
100 mm	0,23	4,72	26,77
120 mm	0,19	5,62	31,94
140 mm	0,16	6,53	37,10
160 mm	0,14	7,44	42,26
180 mm	0,12	8,35	47,42
200 mm	0,11	9,26	52,58

The relevant values were calculated based on a value of 0.022 W/m²K.

Metal Surfaces



Prepainted Galvanized Steel Surface

Metal Type	Prepainted Galvanized Steel
External Facing Thickness	0.50-0.80 mm
Internal Facing Thickness	0.40-0.80 mm
Thickness Tolerance (EN 10143)	Nominal
Steel Quality (EN 10327)	Grade (S220GD+Z, S250GD+Z, S280GD+Z, S320GD+Z, S350GD+Z)
Paint Type	Polyester, PvdF, Plastisol

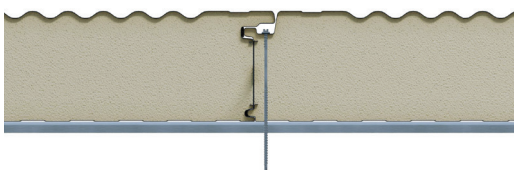
Tolerance Values

Panel Length	Panel Thickness	Panel Cover Width	Rectangularity
If $L \leq 3,000$ mm ± 5 mm If $L > 3,000$ mm ± 10 mm	$D \leq 100$ mm ± 2 mm	± 2 mm for all profiles	$s \leq 0.6\%$ of the nominal cover thickness (w). / (Width x 0.006)

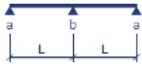
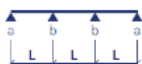
Standard Package

Thickness (mm)	40	50	60	80	100	120	140	160	180	200
Quantity	20	18	14	10	9	8	7	6	5	4

Joint Details



W SINUS (PIR) PANEL LOAD SPAN TABLE

W SINSU (PIR) PANEL LOAD SPAN TABLE																			
	Core Thickness (mm)	Load Type kN/m²	Span length (L) (m)																
			1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	
SINGLE SPAN 	40	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Pressure (kN/m²)	3.73	2.59	1.90	1.45	1.15	0.94	0.77	0.65	0.55	0.48	-	-	-	-	-	-	
		Suction (kN/m²)	-2.88	-2.00	-1.47	-1.12	-0.90	-0.72	-0.60	-0.50	-0.43	-0.37	-	-	-	-	-	-	
	50	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Pressure (kN/m²)	4.69	3.26	2.39	1.83	1.45	1.17	0.98	0.82	0.70	0.60	0.52	-	-	-	-	-	
		Suction (kN/m²)	-3.63	-2.52	-1.85	-1.42	-1.12	-0.91	-0.75	-0.63	-0.54	-0.46	-0.42	-	-	-	-	-	
	60	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Pressure (kN/m²)	5.66	3.93	2.89	2.21	1.74	1.41	1.17	0.99	0.84	0.72	0.63	0.55	0.49	0.44	-	-	
		Suction (kN/m²)	-4.38	-3.04	-2.23	-1.71	-1.35	-1.09	-0.91	-0.76	-0.65	-0.56	-0.49	-0.43	-0.38	-0.34	-	-	
	70	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Pressure (kN/m²)	6.62	4.60	3.38	2.59	2.04	1.65	1.37	1.15	0.99	0.85	0.74	0.65	0.57	0.51	-	-	
		Suction (kN/m²)	-5.13	-3.56	-2.61	-2.00	-1.58	-1.28	-1.06	-0.90	-0.76	-0.66	-0.57	-0.50	-0.44	-0.40	-	-	
	80	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Pressure (kN/m²)	7.59	5.27	3.87	2.96	2.34	1.89	1.57	1.31	1.12	0.97	0.85	0.74	0.66	0.59	0.53	-	
		Suction (kN/m²)	-5.88	-4.08	-3.00	-2.29	-1.81	-1.47	-1.21	-1.02	-0.87	-0.75	-0.66	-0.58	-0.51	-0.45	-0.41	-	
	100	a (mm)	48	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Pressure (kN/m²)	9.52	6.61	4.86	3.72	2.94	2.38	1.96	1.65	1.41	1.21	1.05	0.94	0.83	0.74	0.66	0.60	
		Suction (kN/m²)	-7.37	-5.12	-3.76	-2.88	-2.27	-1.84	-1.52	-1.28	-1.09	-0.95	-0.82	-0.72	-0.64	-0.57	-0.51	-0.46	
120	a (mm)	60	48	41	40	40	40	40	40	40	40	40	40	40	40	40	40		
	Pressure (kN/m²)	11.45	7.95	5.84	4.47	3.53	2.86	2.36	1.99	1.69	1.46	1.27	1.11	1.11	0.89	0.80	0.72		
	Suction (kN/m²)	-8.86	-6.16	-4.52	-3.46	-2.73	-2.21	-1.83	-1.54	-1.31	-1.13	-0.99	-0.87	-0.77	-0.69	-0.62	-0.56		
150	a (mm)	87	65	51	45	40	40	40	40	40	40	40	40	40	40	40	40		
	Pressure (kN/m²)	14.35	9.96	7.32	5.61	4.43	3.59	2.96	2.49	2.12	1.83	1.59	1.40	1.24	1.10	1.10	0.90		
	Suction (kN/m²)	-11.11	-7.71	-5.67	-4.34	-3.43	-2.78	-2.29	-1.93	-1.64	-1.41	-1.23	-1.08	-0.97	-0.86	-0.77	-0.70		
170	a (mm)	106	80	61	51	45	41	40	40	40	40	40	40	40	40	40	40		
	Pressure (kN/m²)	16.28	11.30	8.31	6.36	5.03	4.07	3.36	2.83	2.41	2.07	1.81	1.59	1.41	1.25	1.12	1.01		
	Suction (kN/m²)	-12.60	-8.75	-6.43	-4.92	-3.89	-3.15	-2.60	-2.19	-1.86	-1.60	-1.40	-1.23	-1.09	-0.98	-0.88	-0.79		
DOUBLE SPAN 	40	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Pressure (kN/m²)	3.73	2.59	1.39	0.75	0.38	0.18	-	-	-	-	-	-	-	-	-	-	
		Suction (kN/m²)	-2.88	-2.00	-1.38	-0.65	-0.24	-0.04	-	-	-	-	-	-	-	-	-	-	
	50	a (mm)	62	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
		Pressure (kN/m²)	4.69	3.26	2.39	1.26	0.74	0.40	0.21	-	-	-	-	-	-	-	-	-	
		Suction (kN/m²)	-3.63	-2.52	-1.85	-1.23	-0.64	-0.27	-0.07	-	-	-	-	-	-	-	-	-	
	60	a (mm)	78	63	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
		Pressure (kN/m²)	5.66	3.93	2.89	2.03	1.10	0.69	0.40	0.22	-	-	-	-	-	-	-	-	
		Suction (kN/m²)	-4.38	-3.04	-2.23	-1.71	-1.04	-0.59	-0.26	-0.08	-	-	-	-	-	-	-	-	
	70	a (mm)	94	76	63	60	60	60	60	60	60	60	60	60	60	60	60	60	60
		Pressure (kN/m²)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Suction (kN/m²)	-5.13	-3.56	-2.61	-2.00	-1.58	-1.58	-0.52	-0.24	-0.08	-	-	-	-	-	-	-	
	80	a (mm)	110	89	74	62	60	60	60	60	60	60	60	60	60	60	60	60	60
		Pressure (kN/m²)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Suction (kN/m²)	-7.37	-5.12	-3.97	-2.96	-2.33	-1.37	0.91	0.56	0.35	0.21	-	-	-	-	-	-	
	100	a (mm)	128	102	84	71	61	60	60	60	60	60	60	60	60	60	60	60	60
		Pressure (kN/m²)	49	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Suction (kN/m²)	-7.37	-5.12	-3.76	-2.88	-2.27	-1.84	-1.52	-0.99	-0.58	-0.31	-0.15	-	-	-	-	-	
120	a (mm)	158	127	106	89	77	67	60	60	60	60	60	60	60	60	60	60	60	
	Pressure (kN/m²)	60	49	42	40	40	40	40	40	40	40	40	40	40	40	40	40		
	Suction (kN/m²)	-11.45	-7.95	-5.84	-4.47	-3.53	-2.86	-2.36	-1.55	-1.01	-0.75	-0.51	-0.34	-	-	-	-		
150	a (mm)	194	158	132	112	97	85	74	60	60	60	60	60	60	60	60	60	60	
	Pressure (kN/m²)	87	65	53	46	41	40	40	40	40	40	40	40	40	40	40	40		
	Suction (kN/m²)	-14.35	-9.96	-7.32	-5.61	-4.43	-3.59	-2.96	-2.49	-1.83	-1.25	-0.95	-0.67	-0.47	-0.33	-	-		
170	a (mm)	250	204	171	147	128	113	100	90	66	60	60	60	60	60	60	60	60	
	Pressure (kN/m²)	106	80	61	52	47	42	40	40	40	40	40	40	40	40	40	40		
	Suction (kN/m²)	-16.29	-11.30	-8.31	-6.36	-5.03	-4.07	-3.36	-2.83	-2.41	-1.73	-1.21	-0.94	-0.68	-0.49	-0.35	-0.25		
TRIPLE SPAN 	40	a (mm)	287	235	198	170	148	131	117	105	95	68	60	60	60	60	60	60	
		Pressure (kN/m²)	-12.60	-8.75	-6.43	-4.92	-3.89	-3.15	-2.60	-2.19	-1.86	-1.60	-1.17	-0.87	-0.57	-0.36	-0.21	-0.11	
		Suction (kN/m²)	-12.60	-8.75	-6.43	-4.92	-3.89	-3.15	-2.60	-2.19	-1.86	-1.60	-1.17	-0.87	-0.57	-0.36	-0.21	-0.11	
	50	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		Pressure (kN/m²)	3.73	2.41	1.36	0.92	0.62	0.44	0.33	0.25	0.20	0.16	-	-	-	-	-	-	
		Suction (kN/m²)	-2.88	-2.00	-1.35	-0.88	-0.56	-0.37	-0.26	-0.19	-0.14	-0.10	-	-	-	-	-	-	
	60	a (mm)	62	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
		Pressure (kN/m²)	4.69	3.26	2.08	1.27	0.91	0.64	0.47	0.36	0.28	0.22	0.18	-	-	-	-	-	
		Suction (kN/m²)	-3.63	-2.52	-1.85	-1.25	-0.87	-0.58	-0.40	-0.29	-0.21	-0.16	-0.12	-	-	-	-	-	
	70	a (mm)	78	63	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
		Pressure (kN/m²)	5.66	3.93	2.89	1.79	1.16	0.88	0.64	0.48	0.37	0.30	0.24	0.20	-	-	-	-	
		Suction (kN/m²)	-4.38	-3.04	-2.23	-1.71	-1.12	-0.83	-0.57	-0.41	-0.30	-0.23	-0.18	-0.14	-	-	-	-	
	80	a (mm)	94	76	63	60	60	60	60	60	60	60	60	60	60	60	60	60	60
		Pressure (kN/m²)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Suction (kN/m²)	-6.62	-4.60	-3.38	-2.40	-1.55	-1.05	-0.83	-0.62	-0.48	-0.38	-0.30	-0.25	-0.21	-0.18	-	-	
	100	a (mm)	110	89	74	60	60	60	60	60	60	60	60	60	60	60	60	60	60
		Pressure (kN/m²)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Suction (kN/m²)	-7.59	-5.27	-3.87	-2.96	-1.99	-1.35	-1.35	-0.78	-0.60	-0.47	-0.38	-0.31	-0.25	-0.21	-0.18	-0.16	
120	a (mm)	128	102	84	71	60	60	60	60	60	60	60	60	60	60	60	60	60	
	Pressure (kN/m²)	49	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40		
	Suction (kN/m²)	-9.52	-6.61	-4.86	-3.72	-2.94	-2.05	-1.44	-1.05	-0.87	-0.68	-0.54	-0.44	-0.36	-0.30	-0.26	-0.22		
150	a (mm)	158	127	106	89	77	65	61	60	60	60	60	60	60	60	60	60	60	
	Pressure (kN/m²)	60	49	42	40	40	40	40	40	40	40	40	40	40	40	40	40		
	Suction (kN/m²)	-11.45	-7.95	-5.84	-4.47	-3.53	-2.86	-2.36	-1.47	-1.01	-0.75	-0.59	-0.49	-0.40	-0.34	-0.27	-0.22		
170	a (mm)	194	158	132	112	97	85	61	60	60	60	60	60	60	60	60	60	60	
	Pressure (kN/m²)	87	65	53	47	42	40	40	40	40	40	40	40	40	40	40	40		
	Suction (kN/m²)	-14.35	-9.96	-7.32	-5.61	-4.43	-3.59	-2.96	-2.23	-1.66	-1.26	-1.26	-0.86	-0.70	-0.58	-0.49	-0.41		
100	a (mm)	250	204	171															