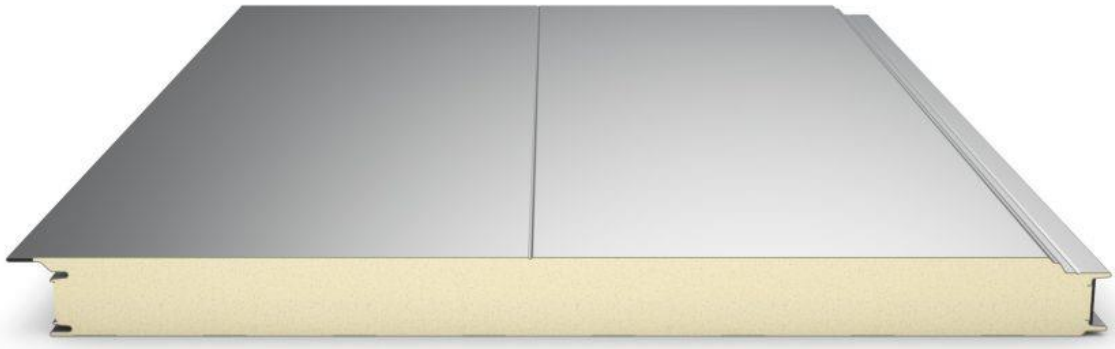
The Specifications of Topway® Steel PIR Sandwich Panel (Wall) TW1000W

	Standard	Optional
Top Profile:	Flat (WF)	W125, W333, W500, WF, WSC, WSR
Bottom Profile:	Flat (WF)	W125, W333, W500, WF, WSC, WSR
Width(mm):	1000	
Length(mm):	Customized	2000-13500
Core Material Thickness:	Customized	40mm，50mm, 60mm, 75mm, 80mm, 100mm, 120mm, 150mm, up to 300mm.
Top Sheet Thickness(mm):	0.5 steel	0.4-0.8 steel, 0.4-0.8 stainless steel and 0.4-1.2 aluminum
Bottom Sheet Thickness(mm):	0.4 steel	0.4-0.8 steel, 0.4-0.8 stainless steel and 0.4-1.2 aluminum
Top Sheet Metallic Coating:	Z40	Z40-Z275, AZ40-AZ150(For steel only)
Bottom Sheet Metallic Coating:	Z40	Z40-Z275, AZ40-AZ150(For steel only)
Top Sheet Finish:	25um PE(Polyester)	15-25um PE(Polyester) or 15-25um PVDF or customized
Bottom Sheet Finish:	25um PE(Polyester)	15-25um PE(Polyester) or 15-25um PVDF or customized
Core Material:	PIR(Polyisocyanurate)	
Core Material Density(kg/m^3):	42	30-45

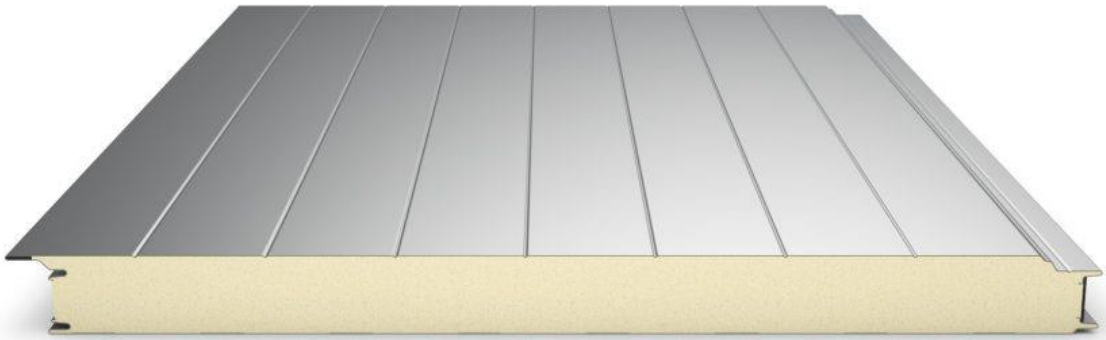
The Profile of Topway® Steel PIR Sandwich Panel (Wall) TW1000W

Topway® Steel PIR Sandwich Panel Wall Profile WF

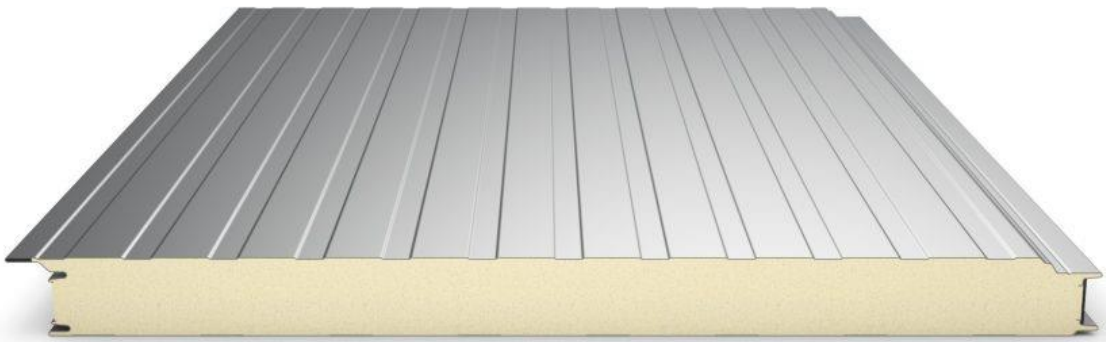


Topway® Steel PIR Sandwich Panel Wall Profile W500

Topway® Steel PIR Sandwich Panel Wall Profile W333

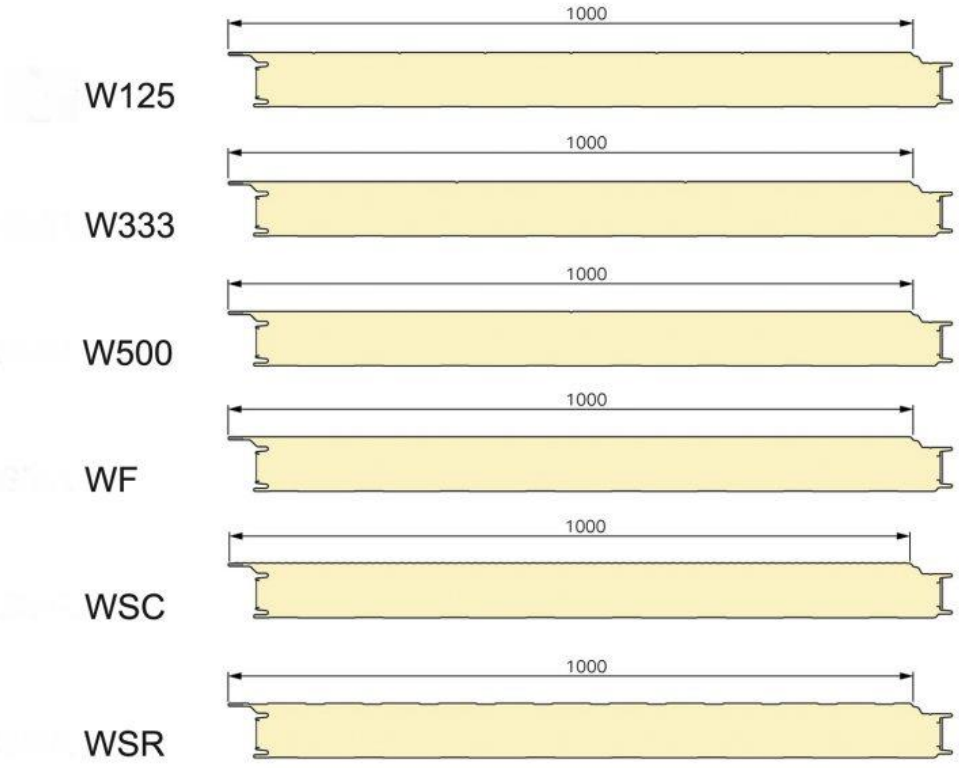


Topway® Steel PIR Sandwich Panel Wall Profile W125



Topway® Steel PIR Sandwich Panel Wall Profile WSR

Topway® Steel PIR Sandwich Panel Wall Profile WSC



The tolerances of Topway® Steel PIR Sandwich Panel (Wall) TW1000W

Panel Length (l))	Parameter
l≤ 3 m	±5 mm
l > 3 m	±10 mm
Panel Width	±2 mm
Panel Thickness(d)	
d ≤ 100 mm	±2 mm
d >100 mm	±2 %

Topway® Steel Colour System

Topway® Steel Colour System is based on RAL Colour System. We can provide any RAL colour you chose. RAL K5 and K7 colour fan deck are both supported. Otherwise, the colour can be made based on your sample.

The technical data of PIR(Polyisocyanurate) core

Enclose Rate:	97%
Fireproof Rate:	B
Water Absorption Percent:	≤1%
Thermal Conductivity:	≤0.023w/m·k
Temperature Range:	-185°C to +120°C
Bond Strength:	≥0.09mpa
Compressive Strength:	≥0.22mpa

The dimensions, weight & thermal performance of Topway® Steel PIR Sandwich Panel (Wall) TW1000W

Core Thickness (mm)	40	50	60	75	80	100	120	150
U-Value (W/m²K)	0.47	0.35	0.31	0.25	0.23	0.18	0.15	0.12
R-Value (K/m²W)	2.13	2.86	3.23	4.00	4.35	5.56	6.67	8.33
Weight kg/m² 0.5/0.4 Steel	9.8	10.4	10.6	11.2	11.4	12.2	13	14.2
Weight kg/m² 0.7/0.5 Alum	5.5	6	6.3	6.8	7.1	7.9	8.7	9.9

The Structural Tables of Topway® Steel PIR Sandwich Panel (Wall) TW1000W

Single Span		Uniformly distributed imposed load (Kn/m²) Span (m)										
Core Thickness(mm):	**Load Type**	**2**	**2.2**	**2.4**	**2.6**	**2.8**	**3**	**3.2**	3.4	3.6	3.8	4
45	Pressure	2.4	2.09	1.72	1.43	1.2	1.01	0.85				
	Suction	2.17	1.74	1.41	1.14	0.93	0.77	0.62				
55	Pressure	2.88	2.62	2.35	1.97	1.67	1.42	1.21	1.04	0.9		
	Suction	2.88	2.43	2	1.65	1.37	1.14	0.96	0.81	0.68		
60	Pressure	3.2	2.91	2.67	2.35	2	1.71	1.47	1.27	1.1	0.96	0.84
	Suction	3.2	2.91	2.42	2.02	1.69	1.42	1.2	1.02	0.87	0.74	0.63
70	Pressure	3.73	3.39	3.11	2.87	2.59	2.23	1.93	1.68	1.46	1.28	1.13
	Suction	3.73	3.39	3.05	2.6	2.24	1.92	1.64	1.4	1.21	1.04	0.9
80	Pressure	4.27	3.88	3.56	3.28	3.05	2.78	2.42	2.12	1.86	1.63	1.44
	Suction	4.27	3.88	3.45	2.94	2.54	2.21	1.94	1.72	1.54	1.37	1.2
90	Pressure	4.69	4.27	3.91	3.61	3.35	3.13	2.84	2.49	2.19	1.93	1.71
	Suction	4.69	4.27	3.77	3.21	2.77	2.41	2.12	1.88	1.67	1.5	1.36
100	Pressure	5.33	4.85	4.44	4.1	3.81	3.56	3.33	3.07	2.72	2.41	2.15
	Suction	5.33	4.85	4.23	3.6	3.11	2.71	2.38	2.11	1.88	1.69	1.52
120	Pressure	6.4	5.82	5.33	4.92	4.57	4.27	4	3.76	3.56	3.26	2.92
	Suction	6.4	5.82	5.33	4.23	3.65	3.18	2.79	2.47	2.21	1.98	1.79
150	Pressure	6.4	5.82	5.33	4.92	4.57	4.27	4	3.76	3.56	3.37	3.2
	Suction	6.4	5.82	5.33	4.92	4.41	3.84	3.38	2.99	2.67	2.4	2.16

Double Span		Uniformly distributed imposed load (Kn/m²) Span (m)										
Core Thickness(mm):	**Load Type**	**2**	**2.2**	**2.4**	**2.6**	**2.8**	**3**	**3.2**	3.4	3.6	3.8	4
45	Pressure	2.4	2.18	2	1.85	1.71	1.57	1.35	1.17	1.02	0.9	0.81
	Suction	2.4	2.18	2	1.72	1.48	1.29	1.13	1	0.89	0.8	0.72
55	Pressure	2.88	2.62	2.4	2.22	2.06	1.92	1.66	1.43	1.25	1.1	0.98
	Suction	2.88	2.62	2.39	2.04	1.76	1.53	1.35	1.19	1.06	0.96	0.86
60	Pressure	3.2	2.91	2.67	2.46	2.29	2.13	1.87	1.61	1.41	1.24	1.1
	Suction	3.2	2.91	2.64	2.25	1.94	1.69	1.49	1.32	1.18	1.05	0.95
70	Pressure	3.73	3.39	3.11	2.87	2.66	2.47	2.24	1.92	1.67	1.46	1.3
	Suction	3.63	3.28	2.99	2.6	2.24	1.95	1.72	1.52	1.36	1.22	1.1
80	Pressure	4.06	3.66	3.33	3.05	2.82	2.62	2.45	2.24	1.94	1.7	1.5
	Suction	3.86	3.49	3.18	2.92	2.54	2.21	1.94	1.72	1.54	1.38	1.24
90	Pressure	4.26	3.84	3.49	3.2	2.96	2.75	2.57	2.41	2.16	1.89	1.66
	Suction	4.05	3.65	3.33	3.05	2.77	2.41	2.12	1.88	1.67	1.5	1.36
100	Pressure	4.56	4.11	3.73	3.42	3.16	2.93	2.74	2.57	2.42	2.18	1.92
	Suction	4.34	3.91	3.55	3.26	3.01	2.71	2.38	2.11	1.88	1.69	1.52
120	Pressure	4.58	4.12	3.74	3.43	3.16	2.94	2.74	2.57	2.42	2.29	2.17
	Suction	4.34	3.9	3.54	3.25	3	2.79	2.61	2.45	2.21	1.98	1.79
150	Pressure	4.61	4.14	3.76	3.44	3.17	2.94	2.74	2.57	2.42	2.28	2.16
	Suction	4.33	3.89	3.53	3.23	2.98	2.77	2.59	2.43	2.28	2.16	2.05

Standard Packing – Sea Transportation

Topway® Steel PIR Insulated Panel (Roof) TW1000W are stacked top side to the top side. The top, bottom, sides, and ends are protected with foam and timber packing, and the entire palette is wrapped with the protection film. The number of panels in each container depends on the panel thickness and length. The table below is shown as a guide.

Thickness(m m)	20GP (m)	40HQ (m)	45HQ (m)
40	667	1475	1687.5
50	533.6	1180	1350
60	440.8	967.6	1107
70	377	826	945
75	353.8	778.8	891
80	330.6	731.6	837
90	295.8	637.2	729
100	266.8	590	675
120	220.4	472	540
150	174	377.6	432
200	133.4	283.2	324

The length of the panel loaded in 20GP is 5.8m.
The length of the panel loaded in 40HQ is 11.8m.
The length of the panel loaded in 45HQ is 13.5m.