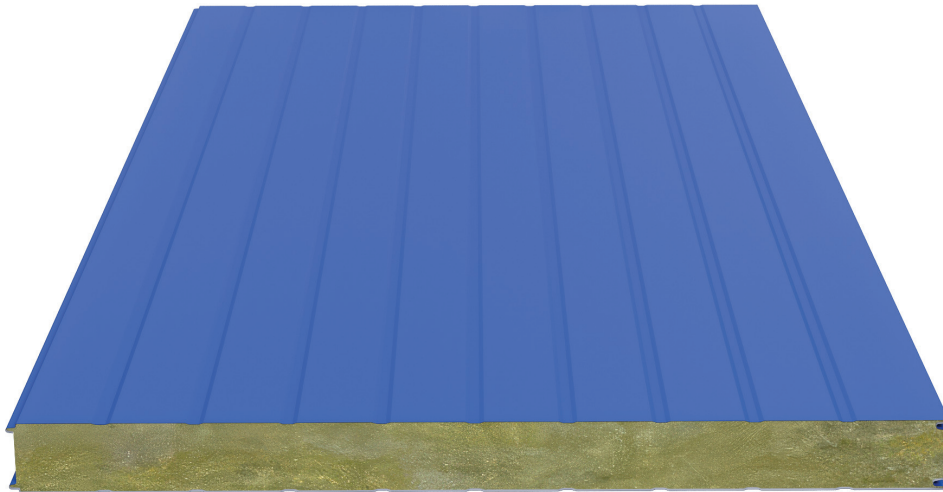


WDT-UK Wall Panel



Product Information

In addition to the durable attachment it provides with double-sided tongue-in-groove sections, the fast assembly capability makes these panels. Generally produced in micro-pressed form to achieve an aesthetic appearance for walls. The ability to use them both laterally and vertically provides assembly flexibility and good solutions for designers.

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.

While every effort has been made to ensure the accuracy of the information provided in this document, Assan Panel and its subsidiaries accept no responsibility for any errors or for content that may be misleading. Any recommendations or descriptions regarding product use or application are offered for general guidance only. Assan Panel and its subsidiaries accept no liability in respect thereof. Assan Panel reserves the right to make changes to this document at any time without prior notice.

Performance Advantages

Has perfect fire resistance values.

Fast and problem-free assembly saves time and labor.

High performance in both thermal insulation and sound insulation.

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.

High sound insulation performance.

Measurements



h: 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

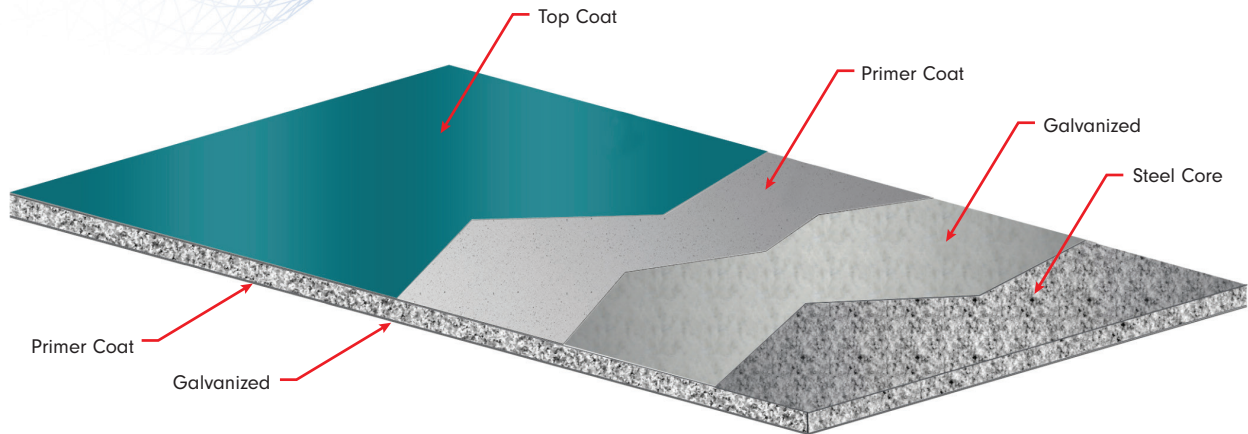
Density (EN 1602)	PIR: 40 (± 2) kg/m ³ & SmartCore-PIR Elite: 41 (± 2) kg/m ³
Thickness	50-60-80-100-120-140-160-180-200 mm
Thermal Conductivity (EN 13165)	PIR Elite-PIR: 0.022-0.024 & SmartCore: 0.018-0.019 W/mK
Reaction to Fire (13501)	PIR Elite: B-s1,d0 & PIR: B-s2,d0

Mineral Wool Thermal Conductivity

Panel Thickness	U Thermal Conductivity (W/m ² K)	R Thermal Conductivity (m ² K/W)	R Thermal Conductivity (ft ² °F h/Btu)
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.

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

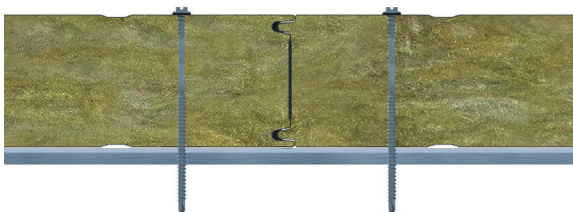
Tolerance Values

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

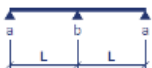
Thickness (mm)	50	60	80	100	120	140	160	180	200
Quantity	18	14	10	9	8	7	6	5	4

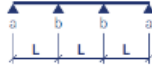
Joint Details



WDT WALL (MW) 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
			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 	50	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		Pressure (kN/m²)	2.07	1.72	1.47	1.29	1.15	1.03	0.95	0.87	0.80	0.70	0.61	0.53	-	-	-	-
		Suction (kN/m²)	-2.07	-1.72	-1.48	-1.29	-1.15	-1.03	-0.88	-0.74	-0.63	-0.54	-0.47	-0.41	-	-	-	-
	60	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		Pressure (kN/m²)	2.49	2.08	1.78	1.56	1.38	1.24	1.13	1.04	0.97	0.84	0.73	0.64	0.57	0.51	0.46	0.41
		Suction (kN/m²)	-2.50	-2.08	-1.78	-1.56	-1.38	-1.24	-1.05	-0.89	-0.76	-0.65	-0.57	-0.50	-0.44	-0.39	-0.35	-0.32
	70	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		Pressure (kN/m²)	2.92	2.43	2.08	1.82	1.62	1.46	1.32	1.21	1.12	0.99	0.86	0.76	0.67	0.60	0.53	0.48
		Suction (kN/m²)	-2.92	-2.43	-2.09	-1.82	-1.62	-1.46	-1.23	-1.03	-0.89	-0.76	-0.66	-0.58	-0.52	-0.46	-0.41	-0.37
	80	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		Pressure (kN/m²)	3.35	2.79	2.39	2.09	1.86	1.67	1.52	1.39	1.28	1.12	0.99	0.87	0.77	0.68	0.61	0.55
		Suction (kN/m²)	-3.35	-2.79	-2.39	-2.09	-1.86	-1.67	-1.41	-1.18	-1.01	-0.88	-0.76	-0.67	-0.59	-0.53	-0.47	-0.43
	100	a (mm)	45	45	45	45	45	45	45	45	45	42	40	40	40	40	40	40
		Pressure (kN/m²)	4.20	3.50	3.00	2.62	2.33	2.10	1.91	1.75	1.61	1.41	1.23	1.08	0.96	0.86	0.77	0.69
		Suction (kN/m²)	-4.20	-3.50	-3.00	-2.62	-2.33	-2.10	-1.77	-1.48	-1.26	-1.09	-0.96	-0.84	-0.74	-0.66	-0.60	-0.54
	120	a (mm)	54	54	54	54	54	54	54	54	54	51	48	45	42	40	40	40
		Pressure (kN/m²)	5.06	4.21	3.61	3.16	2.81	2.52	2.29	2.10	1.94	1.70	1.48	1.30	1.15	1.02	0.93	0.84
		Suction (kN/m²)	-5.06	-4.21	-3.61	-3.16	-2.81	-2.52	-2.13	-1.79	-1.52	-1.31	-1.14	-0.99	-0.80	-0.72	-0.65	-0.58
	150	a (mm)	80	80	80	80	80	80	80	80	80	72	64	57	53	50	47	45
		Pressure (kN/m²)	6.33	5.28	4.52	3.96	3.52	3.16	2.88	2.64	2.43	2.13	1.85	1.63	1.44	1.28	1.15	1.04
		Suction (kN/m²)	-6.33	-5.28	-4.52	-3.96	-3.52	-3.17	-2.87	-2.24	-1.91	-1.64	-1.43	-1.26	-1.11	-1.00	-0.90	-0.81
	170	a (mm)	97	97	97	97	97	97	97	97	97	88	79	71	64	58	53	51
		Pressure (kN/m²)	7.19	5.99	5.13	4.49	3.99	3.59	3.26	2.99	2.76	2.41	2.10	1.85	1.63	1.46	1.31	1.18
		Suction (kN/m²)	-7.19	-5.99	-5.13	-4.49	-3.99	-3.59	-3.03	-2.54	-2.17	-1.87	-1.62	-1.43	-1.26	-1.13	-1.01	-0.92

	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
			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
DOUBLE SPAN 	50	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		Pressure (kN/m²)	2.07	1.72	1.48	1.48	0.63	0.41	0.28	0.20	-	-	-	-	-	-	-	-
		Suction (kN/m²)	-2.07	-1.72	-1.48	-0.91	-0.50	-0.28	-0.16	-0.08	-	-	-	-	-	-	-	-
	60	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		Pressure (kN/m²)	2.49	2.08	1.78	1.35	0.91	0.60	0.41	0.29	0.21	-	-	-	-	-	-	-
		Suction (kN/m²)	-2.49	-2.08	-1.78	-1.26	-0.81	-0.47	-0.28	-0.16	-0.09	-	-	-	-	-	-	-
	70	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
		Pressure (kN/m²)	2.92	2.43	2.09	1.82	1.14	0.82	0.56	0.40	0.29	0.21	-	-	-	-	-	-
		Suction (kN/m²)	-2.92	-2.43	-2.09	-1.82	-1.03	-0.71	-0.43	-0.27	-0.16	-0.09	-	-	-	-	-	-
	80	a (mm)	45	45	45	45	45	45	45	45	45	45	40	40	40	40	40	40
		Pressure (kN/m²)	3.35	2.79	2.39	2.09	1.53	1.53	0.74	0.52	0.38	0.28	0.21	-	-	-	-	-
		Suction (kN/m²)	-3.35	-2.79	-2.39	-2.09	-1.47	-0.99	-0.62	-0.39	-0.25	-0.15	-0.09	-	-	-	-	-
	100	a (mm)	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
		Pressure (kN/m²)	4.20	3.50	3.00	2.62	2.33	1.58	1.05	0.82	0.59	0.44	0.33	0.26	-	-	-	-
		Suction (kN/m²)	-4.20	-3.50	-3.00	-2.62	-2.33	-1.53	-1.03	-0.70	-0.47	-0.31	-0.21	-0.13	-	-	-	-
	120	a (mm)	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
		Pressure (kN/m²)	5.06	4.21	3.61	3.16	2.81	2.32	1.56	1.07	0.86	0.64	0.48	0.37	0.29	0.23	-	-
		Suction (kN/m²)	-5.06	-4.21	-3.61	-3.16	-2.81	-2.39	-1.50	-1.00	-0.75	-0.51	-0.35	-0.24	-0.17	-0.11	-	-
	150	a (mm)	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		Pressure (kN/m²)	6.33	5.28	4.52	3.96	3.52	3.16	2.50	1.74	1.24	1.00	0.76	0.59	0.46	0.37	0.29	0.24
		Suction (kN/m²)	-6.33	-5.28	-4.52	-3.96	-3.52	-3.16	-2.59	-1.71	-1.13	-0.90	-0.64	-0.46	-0.33	-0.24	-0.17	-0.12
	170	a (mm)	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
		Pressure (kN/m²)	7.19	5.99	5.13	4.49	3.99	3.59	3.23	2.26	1.61	1.18	0.98	0.75	0.59	0.47	0.38	0.31
		Suction (kN/m²)	-7.19	-5.99	-5.13	-4.49	-3.99	-3.59	-3.03	-2.31	-1.57	-1.06	-0.87	-0.63	-0.46	-0.34	-0.25	-0.18

	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	
TRIPLE SPAN		50	a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
			Pressure (kN/m²)	2.07	1.72	1.48	1.29	1.15	0.96	0.77	0.62	0.52	0.44	0.38	0.32	0.28	0.25	0.22	0.20
			Suction (kN/m²)	-2.07	-1.72	-1.48	-1.29	-1.15	-1.15	-0.78	-0.63	-0.52	-0.44	-0.37	-0.32	-0.28	-0.25	-0.22	-0.20
		60	b (mm)	73	73	73	73	73	67	60	60	60	60	60	60	60	60	60	60
			a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
			Pressure (kN/m²)	2.49	2.08	1.78	1.56	1.38	1.13	0.96	0.78	0.64	0.54	0.46	0.40	0.35	0.31	0.27	0.24
	70	b (mm)	87	88	88	87	87	78	72	62	60	60	60	60	60	60	60	60	
		a (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
		Pressure (kN/m²)	2.92	2.43	2.09	1.82	1.62	1.39	1.09	0.94	0.78	0.65	0.56	0.48	0.42	0.37	0.33	0.29	
		Suction (kN/m²)	-2.92	-2.43	-2.09	-1.82	-1.62	-1.45	-1.11	-0.97	-0.79	-0.66	-0.56	-0.48	-0.42	-0.37	-0.32	-0.29	
		b (mm)	103	102	103	102	102	97	81	75	66	60	60	60	60	60	60		
		a (mm)	46	44	42	41	40	40	40	40	40	40	40	40	40	40	40	40	
	80	Pressure (kN/m²)	3.35	2.79	2.39	2.09	1.86	1.67	1.30	1.03	0.91	0.77	0.65	0.56	0.49	0.43	0.38	0.34	
		Suction (kN/m²)	-3.35	-2.79	-2.39	-2.09	-1.86	-1.67	-1.34	-1.05	-0.94	-0.78	-0.66	-0.57	-0.49	-0.43	-0.38	-0.34	
		b (mm)	118	118	118	118	118	117	98	82	77	69	60	60	60	60	60		
		a (mm)	57	55	53	51	50	49	45	40	40	40	40	40	40	40	40	40	
		Pressure (kN/m²)	4.20	3.50	3.00	2.62	2.33	2.10	1.78	1.39	1.13	1.13	0.85	0.73	0.63	0.55	0.49	0.44	
		Suction (kN/m²)	-4.20	-3.50	-3.00	-2.62	-2.33	-2.10	-1.77	-1.44	-1.15	-1.00	-0.87	-0.74	-0.64	-0.56	-0.49	-0.44	
	100	b (mm)	148	148	148	147	147	148	134	112	96	90	80	71	63	60	60		
		a (mm)	69	65	63	62	60	58	57	49	44	40	40	40	40	40	40	40	
		Pressure (kN/m²)	5.05	4.21	3.61	3.16	2.81	2.52	2.26	1.78	1.44	1.18	1.18	0.91	0.79	0.69	0.61	0.54	
		Suction (kN/m²)	-5.05	-4.21	-3.61	-3.16	-2.81	-2.52	-2.13	-1.79	-1.49	-1.21	-1.00	-0.94	-0.81	-0.70	-0.61	-0.54	
		b (mm)	182	182	182	182	182	182	179	150	129	111	98	94	85	77	70	64	
		a (mm)	84	81	80	80	80	80	80	70	58	52	47	43	41	40	40	40	
120	Pressure (kN/m²)	6.33	5.28	4.52	3.96	3.52	3.16	2.88	2.43	1.95	1.59	1.33	1.12	1.12	0.90	0.79	0.70		
	Suction (kN/m²)	-6.33	-5.28	-4.52	-3.96	-3.52	-3.16	-2.67	-2.24	-1.91	-1.64	-1.37	-1.15	-1.00	-0.93	-0.81	-0.71		
	b (mm)	235	235	235	235	235	235	234	235	214	183	158	139	122	114	108	98		
	a (mm)	97	97	97	97	97	97	97	92	73	61	55	50	46	43	42	40		
	Pressure (kN/m²)	7.18	5.99	5.13	4.49	3.99	3.59	3.26	2.89	2.31	1.89	1.56	1.32	1.12	1.12	0.92	0.81		
	Suction (kN/m²)	-7.18	-5.99	-5.13	-4.49	-3.99	-3.59	-3.03	-2.54	-2.17	-1.87	-1.62	-1.36	-1.15	-1.00	-0.94	-0.83		
150	b (mm)	269	270	270	270	270	270	269	259	221	192	167	148	131	123	118	108		
	a (mm)	97	97	97	97	97	97	97	92	73	61	55	50	46	43	42	40		
	Pressure (kN/m²)	7.18	5.99	5.13	4.49	3.99	3.59	3.26	2.89	2.31	1.89	1.56	1.32	1.12	1.12	0.92	0.81		
	Suction (kN/m²)	-7.18	-5.99	-5.13	-4.49	-3.99	-3.59	-3.03	-2.54	-2.17	-1.87	-1.62	-1.36	-1.15	-1.00	-0.94	-0.83		
	b (mm)	269	270	270	270	270	270	269	259	221	192	167	148	131	123	118	108		
	a (mm)	97	97	97	97	97	97	97	92	73	61	55	50	46	43	42	40		