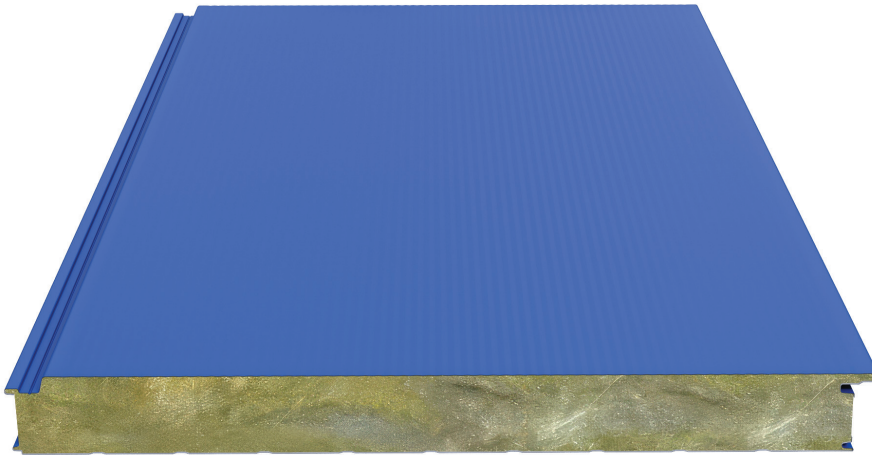


WT-UK Wall Panel



Product Information

WT 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. Generally produced in micro pressed form to achieve an aesthetic appearance for walls. Mineral wool filler provides the best fire resistance performance.

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 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.

Mineral Wool Properties

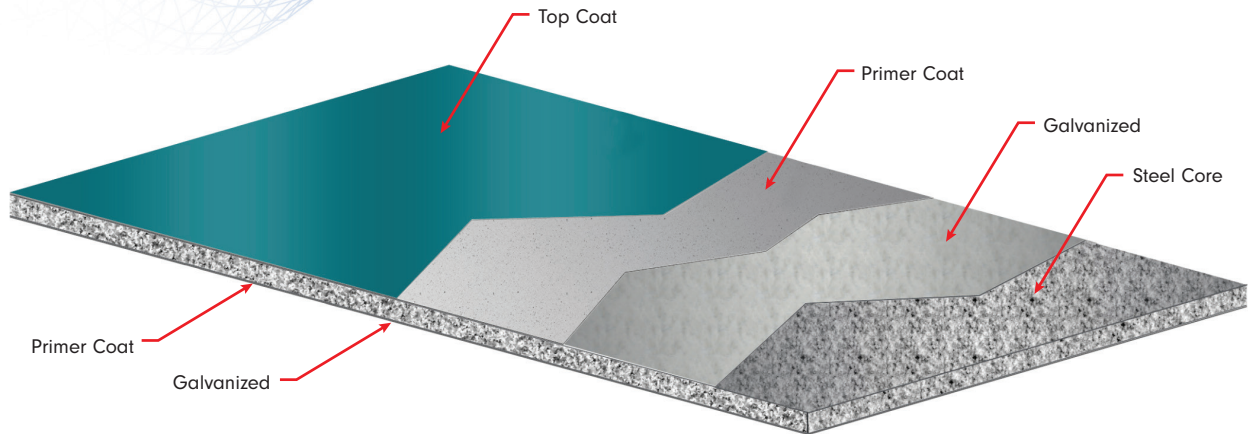
Density (EN 1602)	100 (±10) kg/m ³ - 120 (±10) kg/m ³ - 150 (±10) kg/m ³
Thickness	50-60-80-100-120-140-160-180-200 mm
Thermal Conductivity (EN 13165)	0.043 W/mK
Reaction to Fire (13501)	A2-s1,d0

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	0,91	1,1	6,24
60 mm	0,78	1,28	7,28
80 mm	0,53	1,89	10,71
100 mm	0,42	2,38	13,52
120 mm	0,35	2,86	16,22
140 mm	0,3	3,33	18,93
150 mm	0,28	3,57	20,28
180 mm	0,23	4,35	24,69
200 mm	0,21	4,76	27,04

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

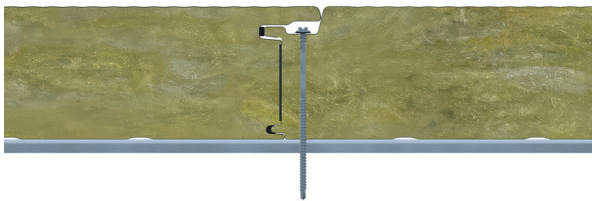
Tolerance Values

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

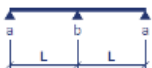
Thickness (mm)	50	60	80	100	120	140	160	180	200
Quantity	18	14	10	9	8	7	6	5	4

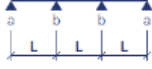
Joint Details



WT 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
			4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
SINGLE SPAN 	50	a (mm)	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
		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
		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
	70	a (mm)	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
		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
	80	a (mm)	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
		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
	100	a (mm)	45	45	45	45	45	45	45	45	45	42	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
		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
	120	a (mm)	54	54	54	54	54	54	54	54	54	51	48	45	42	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
		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	-0.98	-0.80	-0.72
	150	a (mm)	80	80	80	80	80	80	80	80	80	72	64	57	50	47
		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
		Suction (kN/m²)	-6.33	-5.28	-4.52	-3.96	-3.52	-3.17	-2.67	-2.24	-1.91	-1.64	-1.43	-1.26	-1.11	-0.99
	170	a (mm)	97	97	97	97	97	97	97	97	97	88	79	71	64	58
		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
		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

	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
			40	40	40	40	40	40	40	40	40	40	40	40	40	40
DOUBLE SPAN 	50	a (mm)	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
		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
		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	42	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
		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
		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	-1.07	-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
		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
		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
	170	a (mm)	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
		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

	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
			40	40	40	40	40	40	40	40	40	40	40	40	40	40
TRIPLE SPAN 	50	a (mm)	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
		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
	60	a (mm)	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
		Suction (kN/m²)	-2.49	-2.08	-1.78	-1.56	-1.38	-1.16	-0.99	-0.80	-0.66	-0.55	-0.47	-0.40	-0.35	-0.31
	70	a (mm)	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
		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
	80	a (mm)	46	44	42	41	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	1.30	1.03	0.91	0.77	0.65	0.56	0.49	0.43
		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
	100	a (mm)	57	55	53	51	50	49	45	40	40	40	40	40	40	40
		Pressure (kN/m²)	4.20	3.50	3.00	2.62	2.33	2.10	1.70	1.39	1.13	1.13	0.85	0.73	0.63	0.55
		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
	120	a (mm)	68	65	63	62	60	58	57	49	44	40	40	40	40	40
		Pressure (kN/m²)	5.06	4.21	3.61	3.16	2.81	2.52	2.26	1.78	1.44	1.18	1.18	0.91	0.79	0.68
		Suction (kN/m²)	-5.06	-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
	150	a (mm)	84	81	80	80	80	80	80	70	58	52	47	43	41	40
		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
		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
	170	a (mm)	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	3.26	2.89	2.31	1.89	1.56	1.32	1.12	1.12