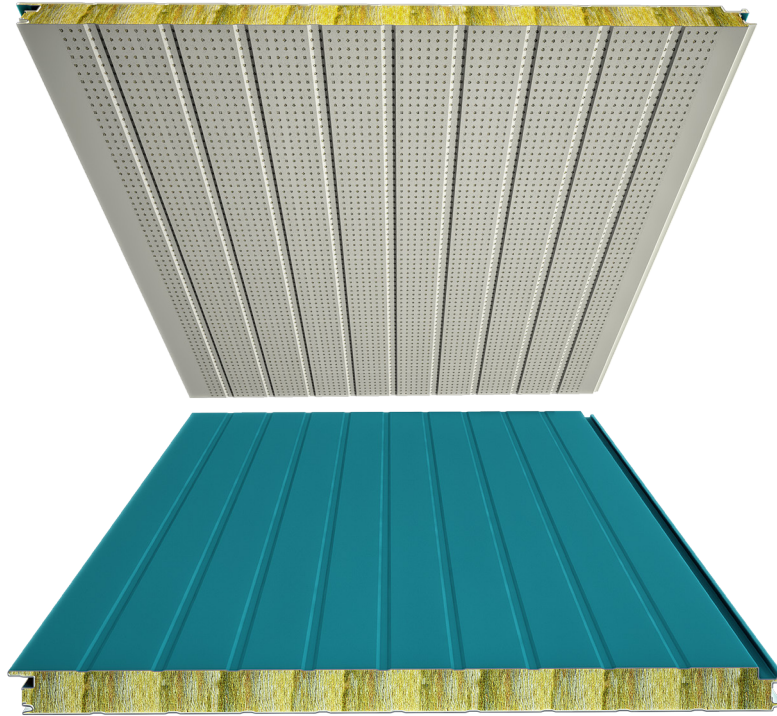


WT Acoustic Wall Panel



Product Description

The perforated interior design provides high acoustic performance and class A sound absorption. 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. Generally produced in micro pressed form to achieve an aesthetic appearance for walls.

Production Location

Balıkesir

Product Application

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

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 polyurethane structure does not retain water and allow bacteria and pests to develop.

The use of n-Pentane gas in inflating polyurethane prevent environmental damage.

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

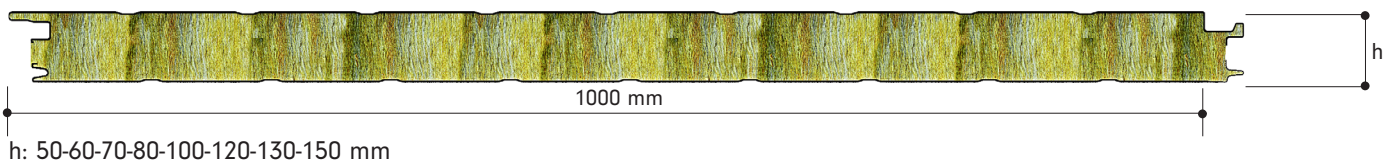
Color options available in the RAL catalogue.

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



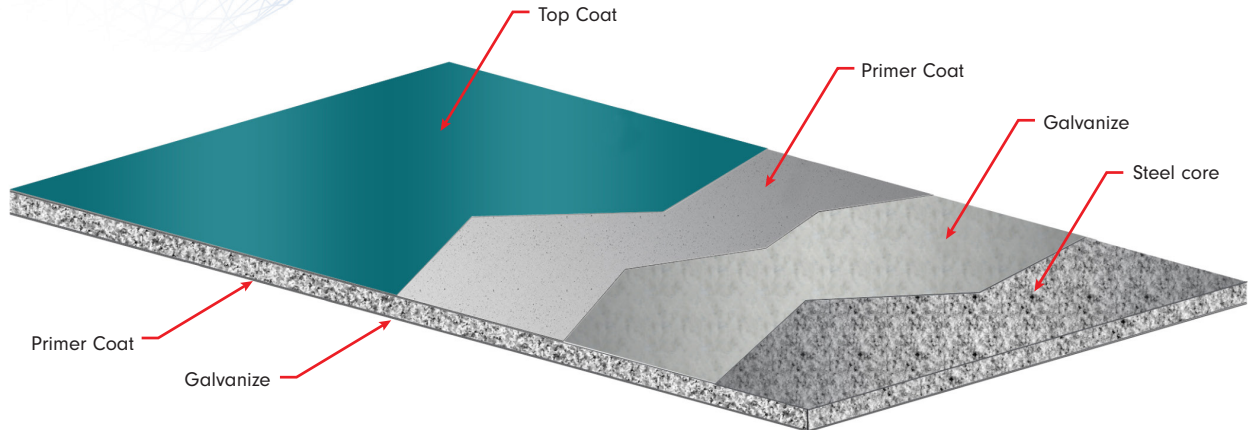
Modular Width	1000 mm
Minimum Length	3 metre
Maximum Length	Depends on transport conditions.

Mineral Wool



Mineral Wool density	100 (±10) kg/m³
Mineral Wool Thickness	50-60-80-100-120-130-150 mm
Thermal Conductivity Coefficient	0,033 W/mK
Inflammability Class (EN 13501-1)	A1
Water Absorption	By Volume 2%
Heat Resistance	600 °C
Sound Insulation Rw [dB]	30
Water Vapour Diffusion (EN 12086)	1

Metallic Surface



Prepainted Galvanized Steel Surface

Type	Prepainted Galvanized Steel
External Facing Thickness	0,50-0,70 mm
Internal Facing Thickness	0,50-0,70 mm
Thickness Tolerance (EN 10143)	Nominal
Steel Quality (EN 10327)	Dx51 D+Z Prepainted Galvanized Steel (last coat polyester paint on primer)
Hot Dipped Coated Steel Grade (EN 10327)	100-275 gr/m ²
Paint Type	Polyester, PvdF, Plastisol, PVC

Load/Span Table

BGS	BGS	Double Span									
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	Mineral Wool Thickness (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm
0,5	0,5	50	152	133	116	101	90	81	73	66	61
0,5	0,5	60	187	162	140	123	110	99	89	82	75
0,5	0,5	70	196	170	147	129	115	104	94	86	79
0,5	0,5	80	251	218	190	167	149	133	122	111	102
0,5	0,5	100	317	275	239	211	188	169	154	141	129
0,5	0,5	120	348	303	263	232	207	186	169	155	142
0,5	0,5	130	366	318	276	243	217	195	178	163	149
0,5	0,5	150	384	334	290	256	228	205	187	171	157

• Load values kg/m³ • Limit value L/200 • BGS: Painted Galvanized Steel

Coefficient of Thermal Conductivity

Panel Thickness (Mineral Wool)	U Thermal Conductivity (W/m ² K)	R Thermal Conductivity (m ² K/W)	R Thermal Conductivity (ft ² °F h/Btu)
50 mm	0,585	1,708	9,698
60 mm	0,497	2,011	11,418
70 mm	0,440	2,273	12,902
80 mm	0,382	2,617	14,861
100 mm	0,310	3,223	18,299
120 mm	0,261	3,831	21,756
130 mm	0,243	4,115	23,366
150 mm	0,224	4,464	25,347

TSE EN 14509'a göre.

Mechanical Properties

Steel Faces Yield Strength	min. 220 N/mm ²
Tensile Strength of Panel	min. 0,018 Mpa
Panel Tensile Modulus at Elevated Temperature	min. 0,04 Mpa
Shear Strength of Core Material	min. 0,06 Mpa
Shear Modulus of Core Material	min. 3,0 Mpa
Compressive Strength of Core Material	min. 0,07 Mpa
Bending Moment Capacity in Span	min. 2,5 KNm/m (Straight) min. 1,5 KNm/m (Reverse)

According to TSE EN 14509.

Tolerances

Panel Length	Panel Thickness	Panel Cover Width	Rectangularity
If L ≤ 3000 mm., ±5mm If L > 3000 mm., ± 10mm	D ≤ 100mm ±2mm	± 2mm for all profiles	0.6% of s ≤ nominal cover thickness (Width x 0.006)

Standard Package

Thickness (mm)	50	60	70	80	100	120	150
Quantity	19	16	14	12	9	8	6

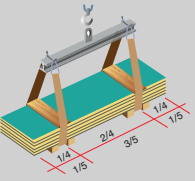
Standard Color Options

RAL 3009	RAL 5010	RAL 5018	RAL 6021	RAL 7016	RAL 9002	RAL 9006
						

Joint Details



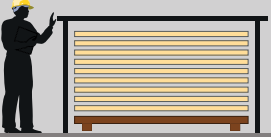
Transportation and protection of sandwich panel



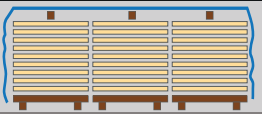
During hoisting take precaution for the sling.



Do not drag panel's in a pile, or on the roof purlins. Lift panel's from both ends when moving or laying in place.



Panel's to be stored on site for long periods should be stacked in covered areas. Wherever possible, always place stacks preferably on wooden wedges, against ground water.



For shorter periods stacks should be arranged on sloppy areas with a simple scaffolding and polyethilen coverleaving space for ventilation. Place stacks on a simple wedge.



Do not walk on panels.