

WDWT Wall Panel



Product Description

It is suitable for use on aesthetic facades with its system that hides the fastener. It can be applied both horizontally and vertically. In this way, it offers alternative solutions to designers with the assembly flexibility it provides. It has high strength with its deep micro indented form. It allows to pass wide openings on the facades.

Production Location

Balikesir

Product Application

- Prefabricated Buildings
- 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

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Performance Advantages

Has the best fire resistance values.

Fast and problem-free assembly saves time and labor.

High performance in both fire insulation and sound insulation.

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

Color options available in the RAL catalogue.

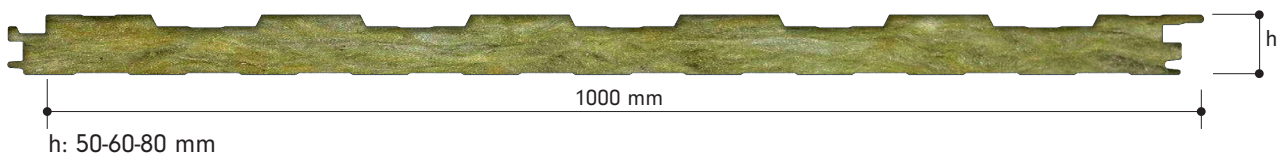
Surface paint options available according to application (Polyester, PvdF, Plastisol, PVC).

Applicable both laterally and vertically.

The fastening elements being concealed provides visual advantage on walls.

High sound insulation performance.

Measurements



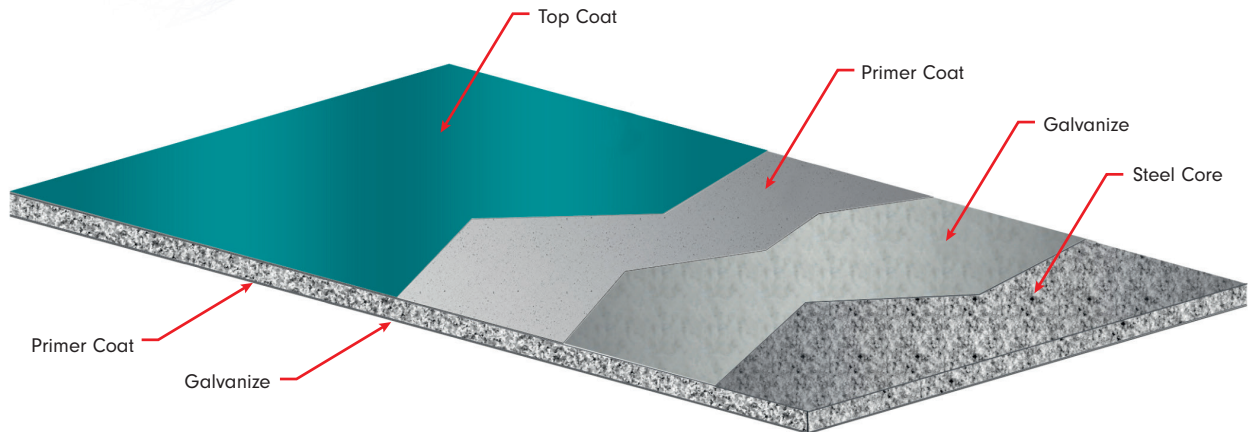
| | |
|-----------------------|----------------------------------|
| Modular Width | 1000 mm |
| Minimum Length | 3 meter |
| Maximum Length | Depends on transport conditions. |

Mineral Wool



| | |
|---|------------------------------------|
| Mineral Wool Density | 100 (± 10) kg/m ³ |
| Mineral Wool Thickness | 50-60-80 mm |
| Thermal Conductivity | 0.043 W/mK |
| Reaction to Fire (EN 13501) | A1 |
| Water Absorption | By Volume %2 |
| Closed Cell Percentage | 30 |
| Sound Insulation Rw [dB] \geq | 1 |
| Heat Resistance | 600 °C |

Metallic Surface



Prepainted Galvanized Steel Surface

| | |
|---|--|
| Metal Type | Prepainted Galvanized Steel |
| External Facing Thickness | 0,50-0,70 mm |
| Internal Facing Thickness | 0,40-0,70 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 g/m ² |
| Paint Type | Polyester, PVDF, Plastisol, PVC |

Load / Span Table

| PPGS | | Double Span | | | | |
|-------------------------------|-------------------------------|-----------------|--------|--------|--------|--------|
| External Sheet Thickness (mm) | Internal Sheet Thickness (mm) | Stone Wool (mm) | 100 cm | 150 cm | 200 cm | 250 cm |
| 0.5 | 0.4 | 50 | 243 | 166 | 119 | 90 |
| 0.5 | 0.4 | 60 | 301 | 207 | 152 | 115 |
| 0.5 | 0.4 | 80 | 418 | 277 | 216 | 167 |

• Load values kg/m² • Limit value L/200 • PPGS: Painted Galvanized Steel

Coefficient of Thermal Conductivity

| Stone Wool Coefficient of Thermal Conductivity | | | |
|--|---|---|---|
| Panel Thickness | U Thermal Conductivity (W/m ² K) | R Thermal Conductivity (W/m ² K) | R Thermal Conductivity (ft ² °F h/BTU) |
| 50 mm | 0,840 | 1,190 | 6,760 |
| 60 mm | 0,700 | 1,429 | 8,111 |
| 80 mm | 0,525 | 1,905 | 10,815 |

According to TS EN 14509

Mechanical Properties

| | |
|--|--|
| Steel Faces Yield Strength | min. 220 N/mm ² |
| Tensile Strength of Panel | min. 0.018 MPa |
| Shear Strength of Core Material | min. 0.03 MPa |
| Core Material Shear Modulus | min. 3.0 MPa |
| Compressive Strength of Core Material | min. 0.05 MPa |
| Bending Moment Capacity in Span | min. 1.8 KNm/m (Straight) min. 1.5 KNm/m (Reverse) |
| Shear Strength After Long-Continued Loading | t: 1.000 hours min. 0,02 Mpa t: 2.000 hours min. 0,019 Mpa t: 100.000 hours min. 0,017 Mpa |
| Torsion Stress in Span | min. 40 Mpa (Reverse) min 50 Mpa (Straight) |

According to TS EN 14509.

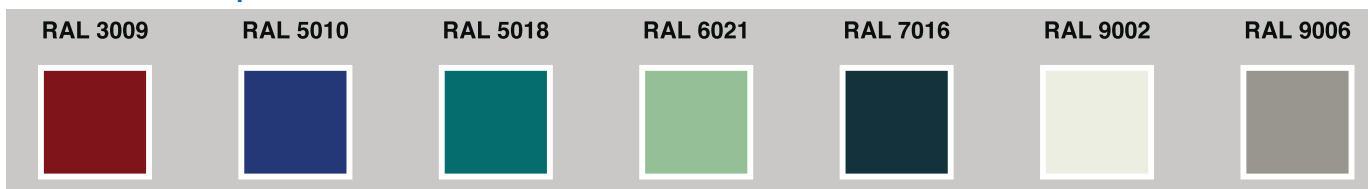
Tolerance Limits

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

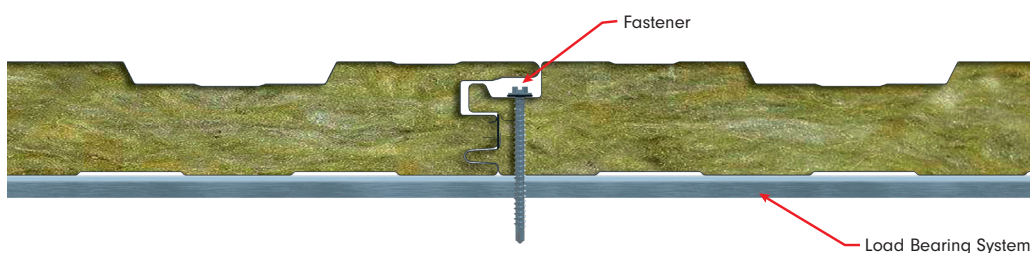
Standard Package Quantities

| Thickness (mm) | 50 | 60 | 80 |
|-----------------|----|----|----|
| Quantity | 19 | 16 | 12 |

Standard Color Options



Joint Details



Transportation and Protection of Sandwich Panel

