

SANDWICH PANEL PWW-S



Panels connection scheme

APPLICATION

PWW-S wall sandwich panel with a visible joint and a mineral wool core is designed for the installation of external and internal partition walls, as well as suspended ceilings. This panel stands out due to its excellent fire resistance, good thermal insulation properties, and high durability.

The installation of the panel can be carried out both vertically and horizontally, using steel screws that pass through the panel into the building structure. The panel is fully compatible with the PWS-S and PWW-S LITE wall panels and is externally and internally compatible with the Paneltech PWPIR-S, PWPIR-S LITE, and PWPIR-CH wall panels.

The insulating core of the panel is made of mineral wool with a density of 100 kg/m³, while the facings consist of profiled, galvanized steel sheets coated with protective paint layers. The edge joints of the core are designed in such a way that they do not require the use of additional sealing materials.

AVAILABLE PROFILATION TYPES

EXTERNAL PROFILATION

- L** - LINEAR
- MF** - MICROWAVE
- ML** - MICROLINEAR
- G** - SMOOTH

INTERNAL PROFILATION

- L** - LINEAR
- R** - GROOVE
- G** - SMOOTH

TABLE OF TECHNICAL PARAMETERS OF THE PWW-S PANELS

Parameter	Value								
thickness [mm]	60	80	100	120	140	150	160	180	200
modular width [mm]	1130, 1000 (optionally 1050) ¹⁾								
length ²⁾ [mm]	2000 ÷ 10000								
weight ³⁾ for PWW-S [kg/m ²]	14,1	16,1	18,1	20,1	22,1	23,1	24,1	26,1	28,1
heat transfer coefficient U _c for PWW-S [W/m ² K]	0,66	0,49	0,39	0,33	0,28	0,27	0,25	0,22	0,20
acoustic insulation Rw [dB]	31		33	31				34	
reaction to fire	A2-s1,d0								
resistance to external fire ⁴⁾	NRO								
wall fire rating ⁵⁾	NPD	EI 30 (o ↔ i) ⁵⁾	EI 90 (o ↔ i) ⁵⁾	EI 120 / EI 180 (o ↔ i) ⁵⁾				EI 180 / EI 240 (o ↔ i) ⁵⁾	
anti-corrosive protection	depending on the coating used ⁶⁾								
organic coatings	SP25, PU, AGRO, FOOD SAFE and other ⁶⁾								
external facing	galvanized steel 0,5 ÷ 0,6 mm ⁷⁾								
internal facing	galvanized steel 0,5 ÷ 0,6 mm ⁷⁾								
available profilation types	external facing L, ML, MF, G ⁸⁾ ; internal facing L, R ⁸⁾ , G ⁸⁾								
insulating core	rock, inflammable mineral wool with a lamella fiber structure 100 kg/m ³								
application	non-continuous application on external walls and as wall cladding, on the structural parts of walls and ceilings								
wall application layout	vertical or horizontal								

¹⁾ In order to verify the feasibility of a given order, please contact our Customer Service Department or Sales Representative.

²⁾ length depends on the color of the external facing and the thickness of the panel

³⁾ average weight of a sandwich panel with 0.5 mm outer facing, including product tolerance

⁴⁾ fire rating concerning the propagation of fire by the wall when the fire acts towards the outside. This property applies to the Polish territory only and is not CE-marked.

⁵⁾ detailed information (including panel layout and support spans) can be found in the General Terms and Conditions of Sale available at paneltech.pl

⁶⁾ organic coat selected on the basis of durability and application conditions. Coat selection is carried out through environmental assessment and basing on an environmental questionnaire completed by the Client, approved by the steel manufacturer and Paneltech

⁷⁾ other steel types are selected according to application conditions and approved by Paneltech

⁸⁾ facings with the G – smooth or R – groove profiles can include microwaves, which affect the appearance of the product classified as compliant with the requirements of EN 14509, annex D