

PWW-S / PWW-S LITE



Panels connection scheme

APPLICATION

Sandwich wall panel with visible joint PWW-S/PWW-S lite is used to construct external walls and internal partitions in the single- or multiple-span shell structure. The panels can be installed both vertically and horizontally. The core of the panel comprises mineral wool of 100 kg/m³ (PWW-S) or 85 kg/m³ (PWW-S lite). Thanks to their properties, i.e. high fire-resistance parameters, the panels can be used to construct buildings with high fire ratings. The PWW-S / PWW-S lite panels are compatible with wall panels with polyisocyanurate core type PW PIR-S and with wall panels with expanded polystyrene core type PWS-S.

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 / PWW-S LITE PANELS

Parameter	Value								
thickness [mm]	60 ¹⁾	80 ¹⁾	100	120	140	150	160	180	200
modular width [mm]	1130 (optionally 1000)								
length ²⁾ [mm]	2000 ÷ 10000								
weight ³⁾ for PWW-S [kg/m²]	14,1	16,1	18,1	20,1	22,1	23,1	24,1	26,1	28,1
weight ³⁾ for PWW-S lite [kg/m²]	-	-	16,6	18,3	20	20,9	21,7	23,4	25,1
heat transfer coefficient U _c for PWW-S [W/m²K]	0,66	0,49	0,39	0,33	0,28	0,27	0,25	0,22	0,20
heat transfer coefficient U _c for PWW-S lite [W/m²K]	-	-	0,38	0,32	0,27	0,25	0,24	0,21	0,19
acoustic insulation Rw [dB]	31		33	31					34
reaction to fire	A2-s1,d0								
resistance to external fire ⁴⁾	NRO								
PWW-S wall fire rating ⁵⁾	NPD	EI 30 (o ↔ i) ⁵⁾	EI 60 (o ↔ i) ⁵⁾	EI 120 (o ↔ i) ⁵⁾				EI 240 (o ↔ i) ⁵⁾	
PWW-S lite wall fire rating ⁵⁾	-		EI 60 (o ↔ i) ⁵⁾						
anti-corrosive protection	external C1, C2, C3 (C4 ÷ C5) ⁶⁾ , internal A1 (A2 ÷ A5) ⁶⁾								
organic coatings	SP 25, 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 85 kg/m3 (PWW-S Lite) and 100 kg/m³ (PWW-S)								
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⁾ applies to sandwich panels PWW-S

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⁾ for more details on the General Terms of Sale and Delivery, go to www.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