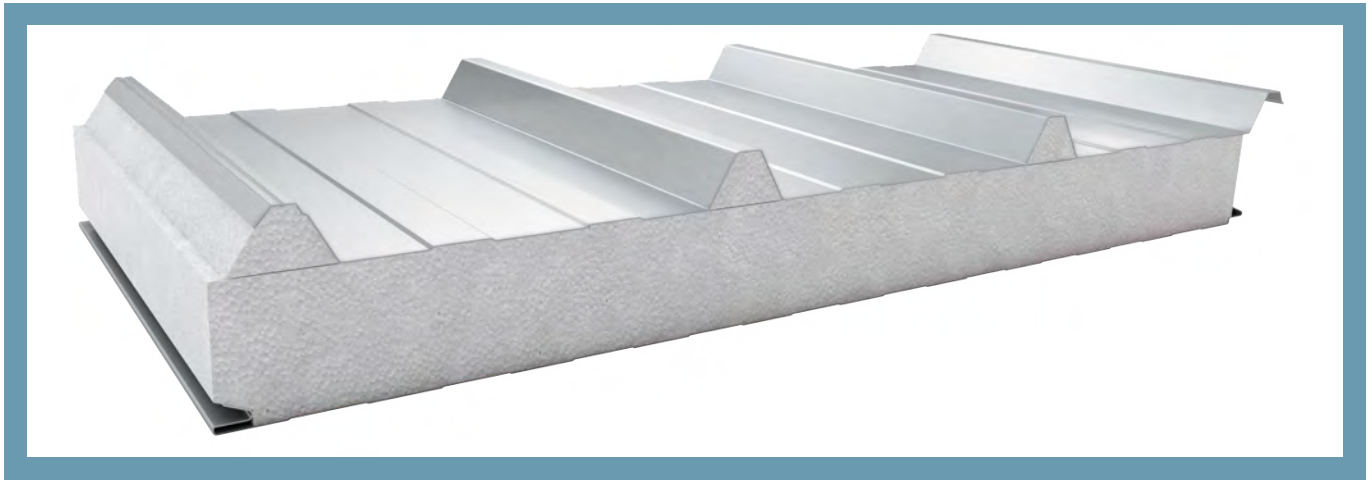


# SANDWICH PANEL PWS-D<sup>1)</sup>



Panels connection scheme

## APPLICATION

PWS-D roof sandwich panel with a polystyrene core is designed for roofing and roof coverings on skeletal structures, particularly in buildings where low investment cost is a key criterion.

This panel is characterized by good thermal insulation performance, lightweight construction, and an attractive price. It is fully compatible with PWW-D roofing panels and externally compatible with PWW-D roofing panels with a mineral wool core, as well as PWPIR-D, PWPIR-D LITE, and PWPUR-D roofing panels.

The thermal insulation core of the panel consists of in-house produced polystyrene with a density of 12.5 kg/m<sup>3</sup>. The external layers are made of galvanized steel sheets coated with organic protective layers, available in various colors and with different properties. The outer side features a distinctive high trapezoidal profiling, ensuring durability and structural integrity.

## AVAILABLE PROFILATION TYPES

### EXTERNAL PROFILATION

**T** - TRAPEZOIDAL

### INTERNAL PROFILATION

**L** - LINEAR

**R** - GROOVE

**G** - SMOOTH

**TABLE OF TECHNICAL PARAMETERS OF THE PWS-D PANELS**

Parameter	Value				
thickness [mm]	80	100	120	150	200
modular width [mm]	1050				
length <sup>2)</sup> [mm]	2000 ÷ 10000				
weight <sup>3)</sup> [kg/m <sup>2</sup> ]	9,6	9,9	10,2	10,6	11,5
heat transfer coefficient $U_c$ [W/m <sup>2</sup> K]	0,45	0,37	0,31	0,25	0,19
resistance to external fire	$B_{roof}(t_1)$				
anti-corrosive protection	depending on the coating used <sup>4)</sup>				
organic coatings	SP25, PU, AGRO, FOOD SAFE and other <sup>4)</sup>				
external facing	galvanized steel 0,5 ÷ 0,6 mm <sup>5)</sup>				
internal facing	galvanized steel 0,4 ÷ 0,5 mm <sup>5)</sup>				
available profilation types	external facing T; internal facing L, R <sup>6)</sup> , G <sup>6)</sup>				
insulating core	expanded polystyrene EPS of 12,5 kg/m <sup>3</sup>				
application	non-continuous application on roofs and roof covers				

<sup>1)</sup> Minimum Production Quantity (MPQ) is from 500 m<sup>2</sup> up to 1000 m<sup>2</sup> and depends on thickness of the panel. In order to verify production possibilities of specific order please contact our Customer Service or Sales Representative.

<sup>2)</sup> length depends on the color of the external facing and the thickness of the panel

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

<sup>4)</sup> 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

<sup>5)</sup> other steel types are selected according to application conditions and approved by Paneltech

<sup>6)</sup> 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