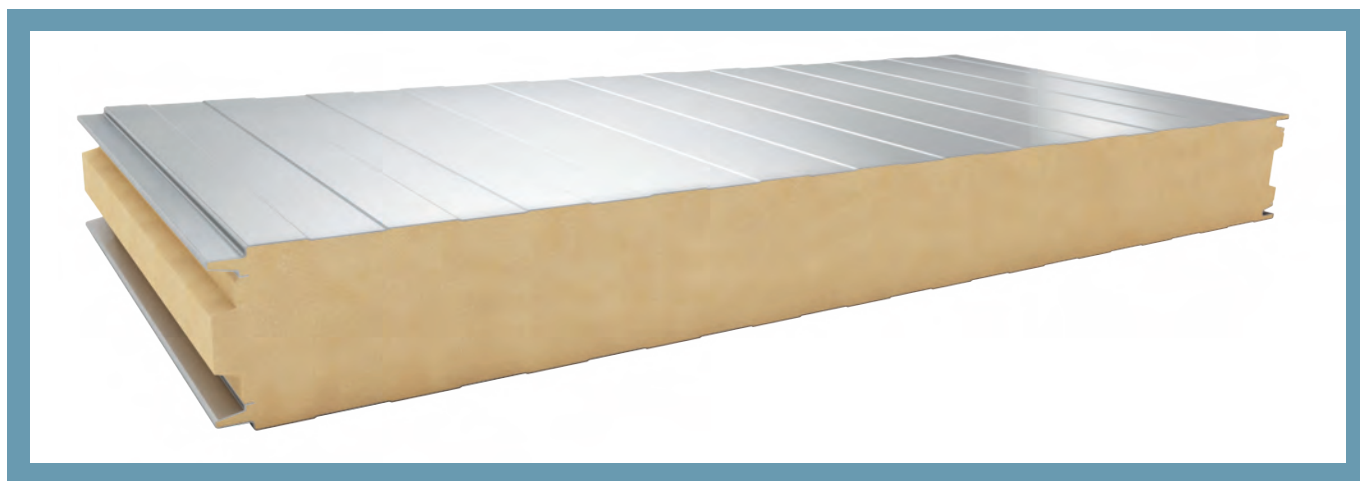


# SANDWICH PANEL PWPIR-CH



Panels connection scheme

## APPLICATION

Coldroom PWPIR-CH sandwich panels are intended for warehouse structures where internal temperatures reach minus 25°C. The panels can be installed both vertically and horizontally. Panel edges are custom-cut, and thus provide a very low coefficient of linear distribution of thermal conductivity of the joint, and thus guarantee complete water-tightness and vapor-tightness. PWPIR-CH sandwich panels are characterized by very good thermal insulation properties and strength, as well as very high fire resistance properties. The core of the panel comprises polyisocyanurate foam (PIR) of 40 kg/m<sup>3</sup> in total density.

## AVAILABLE PROFILATION TYPES

### EXTERNAL PROFILATION

- L** - LINEAR
- MF** - MICROWAVE
- ML** - MICROLINEAR
- G** - SMOOTH
- MR** - MICROGROOVE
- C** - CARBON

### INTERNAL PROFILATION

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

**TABLE OF TECHNICAL PARAMETERS OF THE PWPIR-CH PANELS**

Parameter	Value			
thickness [mm]	120	160	180	200
modular width [mm]	1130 (optionally 1000 or 1050 <sup>1)</sup> )			
length <sup>2)</sup> [mm]	2000 ÷ 15800			
weight <sup>3)</sup> [kg/m <sup>2</sup> ]	13,1	14,7	15,5	16,3
heat transfer coefficient U <sub>c</sub> [W/m <sup>2</sup> K]	0,18	0,14	0,12	0,11
acoustic insulation R <sub>w</sub> [dB]	26			
reaction to fire	B-s1,d0			
resistance to external fire <sup>4)</sup>	NRO			
wall fire rating <sup>5)</sup>	EI 30 (o ↔ i) <sup>5)</sup>			
anti-corrosive protection	external C1, C2, C3 (C4 ÷ C5) <sup>6)</sup> , internal A1 (A2 ÷ A5) <sup>6)</sup>			
organic coatings	SP 25, PU, AGRO, FOOD SAFE and other <sup>6)</sup>			
external facing	galvanized steel 0,5 ÷ 0,6 mm <sup>7)</sup>			
internal facing	galvanized steel 0,4 ÷ 0,5 mm <sup>7)</sup>			
available profilation types	external facing L, ML, MF, MR <sup>8)</sup> , G <sup>9)</sup> , C; internal facing L, R <sup>9)</sup> , G <sup>9)</sup>			
insulating core	rigid foam of 40 kg/m <sup>3</sup> in total density and with enclosed PIR (polyisocyanurate) cells			
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			

<sup>1)</sup> Minimum Production Quantity (MPQ) for modular width 1050 mm is 1000m<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> 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

<sup>5)</sup> for more details on the General Terms of Sale and Delivery, go to [www.paneltech.pl](http://www.paneltech.pl)

<sup>6)</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>7)</sup> other steel types are selected according to application conditions and approved by Paneltech

<sup>8)</sup> detailed information on the MR – microgroove profilation will be provided at individual request

<sup>9)</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