

SANDWICH PANEL PWPIR-D LITE



Panels connection scheme

APPLICATION

PWPIR-D LITE roof sandwich panel is designed for roofs and roof coverings. It is characterised by its favourable price, excellent thermal insulation and durability.

The panel can be used on roofs with a minimum slope of 2.86° (5%) for a continuous covering from the eaves to the ridge, and 5.14° (9%) when panels are joined along their length. Installation is carried out using steel screws, which are fixed through the panel to the building's structure. PWPIR-D LITE is fully compatible with PWPIR-D roof panels and externally compatible with Paneltech PWW-D and PWS-D roof panels.

The thermal insulation core of the board is a rigid polyisocyanurate (PIR) foam with a density of 35 kg/m³, providing very good insulation properties. Despite the lower density, the board has good thermal insulation properties and strength. **However, there is a possibility of micro irregularities on its surface. Therefore PWPIR-D LITE is not recommended for applications where high aesthetics are required.**

AVAILABLE PROFILATION TYPES

EXTERNAL PROFILATION

T - TRAPEZOIDAL

INTERNAL PROFILATION

L - LINEAR

TABLE OF TECHNICAL PARAMETERS OF THE PWPIR-D LITE PANELS

Parameter	Value				
thickness [mm]	80	100	120	145	160
modular width [mm]	1050				
length ¹⁾ [mm]	2000 ÷ 16000				
weight ²⁾ [kg/m ²]	11,3	12,0	12,7	13,3	14,0
heat transfer coefficient U_c [W/m ² K]	0,27	0,22	0,18	0,16	0,14
acoustic insulation R_w [dB]	NPD				
reaction to fire	B-s1,d0				
resistance to external fire	$B_{roof}(t_1)$ and $B_{roof}(t_2)$ and $B_{roof}(t_3)$				
wall fire rating ³⁾	NPD	REI 15 ³⁾			
anti-corrosive protection	depending on the coating used ⁴⁾				
organic coatings	SP25				
external facing	galvanized steel 0,5 mm ⁵⁾				
internal facing	galvanized steel 0,4 ÷ 0,5 mm ⁵⁾				
available profilation types	external facing T; internal facing L				
insulating core	rigid foam of 35 kg/m ³ in total density and with enclosed PIR (polyisocyanurate) cells				
application	non-continuous application on roofs and roof covers				

¹⁾ length depends on the color of the external facing and the thickness of the panel

²⁾ average weight of a sandwich panel with 0.5 mm outer facing, including product tolerance

³⁾ detailed information (including panel layout and support spans) can be found in the General Terms and Conditions of Sale available at paneltech.pl.

⁴⁾ 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

⁵⁾ other steel types are selected according to application conditions and approved by Paneltech