



1. Identification code of the product type / Trademark:

**PW PIR - CH 160**

*Sandwich panel type „coldroom panel” with PIR core, marked with the symbol PW PIR-CH 160, modular width 1130 [mm], optional 1000 [mm] or 1050 [mm] and thickness 160 [mm]*

2. Application of the product:

*Self-supporting, double metal faced insulating sandwich panels, intended to be fixed to supporting structure, for partition and external walls.*

3. Producer:

*Paneltech Sp. z o.o., 41-508 Chorzów, ul. Michałkowicka 24.*

4. Evaluation and verification system of product performances

*Conformity valuation system 3 was applied according to the requirements of the norms EN 13172 and EN 14509.*

5. Harmonized norm / Notified bodies:

*Harmonized norm: PN-EN 14509:2013-12  
Notified bodies responsible for product type tests:  
Building Research Institute in Warsaw – No. 1488  
and FIRES Laboratory in Batizovce – No. 1396.*

6. Declared values of steel facings

*External facing 0,5 mm, internal facing 0,5 or 0,4 mm;  
R- minimum yield strength of steel faces 220 MPa;  
Duplex system for corrosion protection – two protection layers: metallic and organic, for corrosion category RC3, atmosphere with low content of SO<sub>2</sub>.*

7. Declared values

PW PIR – CH 160			
Thermal conductivity $\lambda_D$	0,022 W/m K	Apparent core density	40 kg/m <sup>3</sup> +/-3 kg/m <sup>3</sup>
Thermal transmittance of a panel U	0,13 W/(m <sup>2</sup> K)	Thermal transmittance $U_{d,s}$	0,14 W/(m <sup>2</sup> K)
Tensile strength	110 kPa	Fire reaction class	„E”; B-s1,d0
Tensile E-modulus	3,20 MPa	Fire resistance class to external fire	NRO
Compressive strength	110 kPa	Wall fire resistance class	EI 30
Compressive E-modulus	2,80 MPa	Water permeability	B
Shear strength	120 kPa	Air permeability	≤5 m <sup>3</sup> /h/m <sup>2</sup>
Shear E-modulus	2,80 MPa	Water vapour permeability	impermeable
Acoustic insulation $R_w(C,C_{tr})$	26 (-3;-4) dB	Durability, long term mechanical properties	all colours meet the requirements

*Product meets the tolerances according to the norm EN 14509, Annex D. Summary thermal transmittance  $U_c$  for the panels includes type of the panel joints, facing profiles, mechanical fasteners and foam aging according to the Chapter A.10. Thermal transmittance U refers to sandwich panel as building element and characteristic values for mechanical properties included in Report BPEC are in accordance with Chapter 5.*

8. Summary:

*Performance of above mentioned product is in conformity with the declared performances.  
This declaration of performance is issued in accordance with Regulation (EC) No 305/2011 and 574/2014 of the European Parliament under the sole responsibility of the producer identified above.*

Signed on behalf of the producer: