



DECLARATION OF PERFORMANCE  
Nr 27/U/D

Page 1

Edition 9

1. Identification code of the product type / Trademark:

**PW PUR - D 40/82**

**Roof sandwich panel with PUR core, marked with the symbol PW PUR-D 40/82, modular width 1050 [mm] and thickness 40 [mm]**

2. Application of the product:

Self-supporting, double metal faced insulating sandwich panels, intended to be fixed to supporting structure, for roof covers.

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: EN 14509:2013

Notified bodies responsible for product type tests:

Building Research Institute in Warsaw – No. 1488

and Institute of Mechanised Construction and Rock Mining – No. 1454.

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 PUR – D 40/82			
Apparent core density	40 kg/m³ +/-3 kg/m³	Thermal conductivity $\lambda_D$	0,023 W/m K
		Thermal transmittance $U_c$	0,50 W/(m² K)
Tensile strength	80 kPa	Thermal transmittance $U$	0,48 W/(m² K)
Tensile E-modulus	3,30 MPa	Fire reaction class	NPD
Compressive strength	120 kPa	External fire exposure of roof	$B_{roof}(t1)$
Compressive E-modulus	2,80 MPa	Roof fire resistance class	NPD
Shear strength	120 kPa	Water permeability	B
Shear E-modulus	2,80 MPa	Air permeability	$\leq 1,5 \text{ m}^3/\text{h}/\text{m}^2$
Wrinkling stress for time $t= 2000 \text{ h}$	1,95 [-]	Water vapour permeability	impermeable
Wrinkling stress for time $t= 10\,000 \text{ h}$	3,17 [-]	Acoustic insulation $R_W (C, C_w)$	26 (-2;-5) dB
Durability, long term mechanical properties		all colours meet the requirements	
Product meets the requirements according to the norm EN 14509, including tolerances from Annex D. Summary thermal transmittance $U_c$ for the panels includes type of panel joints, facing profiles and mechanical fasteners. Thermal transmittance $U$ refers to sandwich panel as building element and characteristic values for mechanical properties included in annex 2 are in accordance with Chapter 5. During exploitation sandwich panels do not pose a threat to hygiene, health or personal safety. Meets the requirements of Regulation (EC) No. 1907/2006			

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, 568/2014 and 574/2014 of the European Parliament under the sole responsibility of the producer identified above.



Chorzów, 10.11.2020

Signed on behalf of the producer:

WICEPREZES ZARZĄDU

mgr inż. Marek Banaś





DECLARATION OF PERFORMANCE  
Nr 28/U/D

Page 1

Edition 9

1. Identification code of the product type / Trademark:

**PW PUR - D 60/102**

Roof sandwich panel with PUR core, marked with the symbol PW PUR-D 60/102, modular width 1050 [mm] and thickness 60 [mm]

2. Application of the product:

Self-supporting, double metal faced insulating sandwich panels, intended to be fixed to supporting structure, for roof covers.

3. Producer:

Paneltech Sp. z o.o., 41-508 Chorzów, ul. Michałkowska 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: EN 14509:2013

Notified bodies responsible for product type tests:

Building Research Institute in Warsaw – No. 1488

and Institute of Mechanised Construction and Rock Mining – No. 1454.

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 PUR – D 60/102			
Apparent core density	40 kg/m³ +/-3 kg/m³	Thermal conductivity $\lambda_D$	0,023 W/m K
		Thermal transmittance $U_c$	0,35 W/(m² K)
Tensile strength	80 kPa	Thermal transmittance U	0,34 W/(m² K)
Tensile E-modulus	3,30 MPa	Fire reaction class	NPD
Compressive strength	120 kPa	External fire exposure of roof	$B_{roof}(t1)$
Compressive E-modulus	2,80 MPa	Roof fire resistance class	NPD
Shear strength	120 kPa	Water permeability	B
Shear E-modulus	2,80 MPa	Air permeability	$\leq 1,5 \text{ m}^3/\text{h/m}^2$
Wrinkling stress for time t= 2000 h	1,95 [-]	Water vapour permeability	impermeable
Wrinkling stress for time t= 10 000 h	3,17 [-]	Acoustic insulation $R_w(C,C_w)$	26 (-2;-5 ) dB
Durability, long term mechanical properties		all colours meet the requirements	
Product meets the requirements according to the norm EN 14509, including tolerances from Annex D. Summary thermal transmittance $U_c$ for the panels includes type of panel joints, facing profiles and mechanical fasteners. Thermal transmittance U refers to sandwich panel as building element and characteristic values for mechanical properties included in annex 2 are in accordance with Chapter 5. During exploitation sandwich panels do not pose a threat to hygiene, health or personal safety. Meets the requirements of Regulation (EC) No. 1907/2006			

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, 568/2014 and 574/2014 of the European Parliament under the sole responsibility of the producer identified above.





## DECLARATION OF PERFORMANCE

Nr 29/U/D

Page 1

Edition 9

1. Identification code of the product type / Trademark:

**PW PUR - D 80/122**

Roof sandwich panel with PUR core, marked with the symbol PW PUR-D 80/122, modular width 1050 [mm] and thickness 80 [mm]

2. Application of the product:

Self-supporting, double metal faced insulating sandwich panels, intended to be fixed to supporting structure, for roof covers.

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: EN 14509:2013

Notified bodies responsible for product type tests:

Building Research Institute in Warsaw – No. 1488

and Institute of Mechanised Construction and Rock Mining – No. 1454.

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 PUR – D 80/122			
Apparent core density	40 kg/m³ +/-3 kg/m³	Thermal conductivity $\lambda_D$	0,023 W/m K
		Thermal transmittance $U_C$	0,27 W/(m² K)
Tensile strength	80 kPa	Thermal transmittance $U$	0,26 W/(m² K)
Tensile E-modulus	3,30 MPa	Fire reaction class	NPD
Compressive strength	120 kPa	External fire exposure of roof	$B_{\text{roof}}(t1)$
Compressive E-modulus	2,80 MPa	Roof fire resistance class	NPD
Shear strength	120 kPa	Water permeability	B
Shear E-modulus	2,80 MPa	Air permeability	$\leq 1,5 \text{ m}^3/\text{h/m}^2$
Wrinkling stress for time $t= 2000 \text{ h}$	1,95 [-]	Water vapour permeability	impermeable
Wrinkling stress for time $t= 10\,000 \text{ h}$	3,17 [-]	Acoustic insulation $R_W (C, C_w)$	26 (-2;-5 ) dB
Durability, long term mechanical properties		all colours meet the requirements	
Product meets the requirements according to the norm EN 14509, including tolerances from Annex D. Summary thermal transmittance $U_C$ for the panels includes type of panel joints, facing profiles and mechanical fasteners. Thermal transmittance $U$ refers to sandwich panel as building element and characteristic values for mechanical properties included in annex 2 are in accordance with Chapter 5. During exploitation sandwich panels do not pose a threat to hygiene, health or personal safety. Meets the requirements of Regulation (EC) No. 1907/2006			

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, 568/2014 and 574/2014 of the European Parliament under the sole responsibility of the producer identified above.





DECLARATION OF PERFORMANCE  
Nr 30/U/D

Page 1

Edition 9

1. Identification code of the product type / Trademark:

**PW PUR - D 90/132**

**Roof sandwich panel with PUR core, marked with the symbol PW PUR-D 90/132, modular width 1050 [mm] and thickness 90 [mm]**

2. Application of the product:

Self-supporting, double metal faced insulating sandwich panels, intended to be fixed to supporting structure, for roof covers.

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: EN 14509:2013

Notified bodies responsible for product type tests:

Building Research Institute in Warsaw – No. 1488

and Institute of Mechanised Construction and Rock Mining – No. 1454.

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 PUR – D 90/132			
Apparent core density	40 kg/m³ +/-3 kg/m³	Thermal conductivity $\lambda_D$	0,023 W/m K
		Thermal transmittance $U_c$	0,24 W/(m² K)
Tensile strength	80 kPa	Thermal transmittance $U$	0,23 W/(m² K)
Tensile E-modulus	3,30 MPa	Fire reaction class	B-s2,d0
Compressive strength	120 kPa	External fire exposure of roof	$B_{roof}(t1)$
Compressive E-modulus	2,80 MPa	Roof fire resistance class	NPD
Shear strength	120 kPa	Water permeability	B
Shear E-modulus	2,80 MPa	Air permeability	$\leq 1,5 \text{ m}^3/\text{h/m}^2$
Wrinkling stress for time t= 2000 h	1,95 [-]	Water vapour permeability	impermeable
Wrinkling stress for time t= 10 000 h	3,17 [-]	Acoustic insulation $R_W(C,C_{tr})$	26 (-2;-5) dB
Durability, long term mechanical properties		all colours meet the requirements	
Product meets the requirements according to the norm EN 14509, including tolerances from Annex D. Summary thermal transmittance $U_c$ for the panels includes type of panel joints, facing profiles and mechanical fasteners. Thermal transmittance $U$ refers to sandwich panel as building element and characteristic values for mechanical properties included in annex 2 are in accordance with Chapter 5. During exploitation sandwich panels do not pose a threat to hygiene, health or personal safety. Meets the requirements of Regulation (EC) No. 1907/2006			

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DECLARATION OF PERFORMANCE  
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Edition 9

1. Identification code of the product type / Trademark:

**PW PUR - D 100/142**

Roof sandwich panel with PUR core, marked with the symbol PW PUR-D 100/142, modular width 1050 [mm] and thickness 100 [mm]

2. Application of the product:

Self-supporting, double metal faced insulating sandwich panels, intended to be fixed to supporting structure, for roof covers.

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: EN 14509:2013

Notified bodies responsible for product type tests:

Building Research Institute in Warsaw – No. 1488

and Institute of Mechanised Construction and Rock Mining – No. 1454.

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 PUR – D 100/142			
Apparent core density	40 kg/m³ +/-3 kg/m³	Thermal conductivity $\lambda_D$	0,023 W/m K
		Thermal transmittance $U_c$	0,22 W/(m² K)
Tensile strength	80 kPa	Thermal transmittance $U$	0,21 W/(m² K)
Tensile E-modulus	3,30 MPa	Fire reaction class	B-s2,d0
Compressive strength	120 kPa	External fire exposure of roof	$B_{roof}(t1)$
Compressive E-modulus	2,80 MPa	Roof fire resistance class	NPD
Shear strength	120 kPa	Water permeability	B
Shear E-modulus	2,80 MPa	Air permeability	≤1,5 m³/h/m²
Wrinkling stress for time t= 2000 h	1,95 [-]	Water vapour permeability	impermeable
Wrinkling stress for time t= 10 000 h	3,17 [-]	Acoustic insulation $R_W(C,C_{tr})$	26 (-2;-5 ) dB
Durability, long term mechanical properties		all colours meet the requirements	
Product meets the requirements according to the norm EN 14509, including tolerances from Annex D. Summary thermal transmittance $U_c$ for the panels includes type of panel joints, facing profiles and mechanical fasteners. Thermal transmittance $U$ refers to sandwich panel as building element and characteristic values for mechanical properties included in annex 2 are in accordance with Chapter 5. During exploitation sandwich panels do not pose a threat to hygiene, health or personal safety. Meets the requirements of Regulation (EC) No. 1907/2006			

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, 568/2014 and 574/2014 of the European Parliament under the sole responsibility of the producer identified above.

WICEPREZES ZARZĄDU

mgr inż. Marek Romański



Chorzów, 10.11.2020

Signed on behalf of the producer:





DECLARATION OF PERFORMANCE  
Nr 32/U/D

Page 1

Edition 9

1. Identification code of the product type / Trademark:

**PW PUR - D 120/162**

Roof sandwich panel with PUR core, marked with the symbol PW PUR-D 120/162, modular width 1050 [mm] and thickness 120 [mm]

2. Application of the product:

Self-supporting, double metal faced insulating sandwich panels, intended to be fixed to supporting structure, for roof covers.

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: EN 14509:2013

Notified bodies responsible for product type tests:

Building Research Institute in Warsaw – No. 1488

and Institute of Mechanised Construction and Rock Mining – No. 1454.

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 PUR – D 120/162			
Apparent core density	40 kg/m³ +/-3 kg/m³	Thermal conductivity $\lambda_D$	0,023 W/m K
		Thermal transmittance $U_c$	0,18 W/(m² K)
Tensile strength	80 kPa	Thermal transmittance $U$	0,18 W/(m² K)
Tensile E-modulus	3,30 MPa	Fire reaction class	B-s2,d0
Compressive strength	120 kPa	External fire exposure of roof	$B_{\text{roof}}(t1)$
Compressive E-modulus	2,80 MPa	Roof fire resistance class	NPD
Shear strength	120 kPa	Water permeability	B
Shear E-modulus	2,80 MPa	Air permeability	≤1,5 m³/h/m²
Wrinkling stress for time t= 2000 h	1,95 [-]	Water vapour permeability	impermeable
Wrinkling stress for time t= 10 000 h	3,17 [-]	Acoustic insulation $R_W(C,C_{tr})$	26 (-2;-5 ) dB
Durability, long term mechanical properties		all colours meet the requirements	
Product meets the requirements according to the norm EN 14509, including tolerances from Annex D. Summary thermal transmittance $U_c$ for the panels includes type of panel joints, facing profiles and mechanical fasteners. Thermal transmittance $U$ refers to sandwich panel as building element and characteristic values for mechanical properties included in annex 2 are in accordance with Chapter 5. During exploitation sandwich panels do not pose a threat to hygiene, health or personal safety. Meets the requirements of Regulation (EC) No. 1907/2006			

8. Summary:

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WICEPREZES ZARZADU

mgr inż. Marek Romański

Signed on behalf of the producer:

**PANELTECH**  
NOWOCZESNE BUDOWNICTWO

Chorzów, 10.11.2020





DECLARATION OF PERFORMANCE  
Nr 33/U/D

Page 1

Edition 9

1. Identification code of the product type / Trademark:

**PW PUR - D 160/202**

Roof sandwich panel with PUR core, marked with the symbol PW PUR-D 160/202, modular width 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 roof covers.

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: EN 14509:2013

Notified bodies responsible for product type tests:

Building Research Institute in Warsaw – No. 1488

and Institute of Mechanised Construction and Rock Mining – No. 1454.

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 PUR – D 160/202			
Apparent core density	40 kg/m³ +/-3 kg/m³	Thermal conductivity $\lambda_D$	0,023 W/m K
		Thermal transmittance $U_c$	0,14 W/(m² K)
Tensile strength	80 kPa	Thermal transmittance of a panel $U$	0,14 W/(m² K)
Tensile E-modulus	3,20 MPa	Fire reaction class	B-s2,d0
Compressive strength	110 kPa	External fire exposure of roof	$B_{roof}(t1)$
Compressive E-modulus	2,80 MPa	Roof fire resistance class	NPD
Shear strength	110 kPa	Water permeability	B
Shear E-modulus	3,00 MPa	Air permeability	≤1,5 m³/h/m²
Wrinkling stress for time t= 2000 h	1,95 [-]	Water vapour permeability	impermeable
Wrinkling stress for time t= 10 000 h	3,17 [-]	Acoustic insulation $R_W (C, C_w)$	26 (-2;-5) dB
Durability, long term mechanical properties		all colours meet the requirements	
Product meets the requirements according to the norm EN 14509, including tolerances from Annex D. Summary thermal transmittance $U_c$ for the panels includes type of panel joints, facing profiles and mechanical fasteners. Thermal transmittance $U$ refers to sandwich panel as building element and characteristic values for mechanical properties included in annex 2 are in accordance with Chapter 5. During exploitation sandwich panels do not pose a threat to hygiene, health or personal safety. Meets the requirements of Regulation (EC) No. 1907/2006			

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WICEPREZES ZARZĄDU

mgr inż. Marek Romaniński



Chorzów, 10.11.2020

Signed on behalf of the producer: