

Declaration of performance no. 27/U/D

1. Identification code of the product type / Trademark: **PW PUR-D 40**

Roof sandwich panel with polyurethane core, marked with the symbol PW PUR-D 40, 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.

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

6. Declared values of steel facings:

Facing thicknesses: 0.4; 0.5; 0.6 mm;

R- minimum yield strength of steel faces 220 MPa;

Corrosion protection system with two protective coatings: metallic and organic.

7. Declared values:

PW PUR-D 40			
Apparent core density	40 kg/m ³ +/-3 kg/m ³	Thermal conductivity λ ₀	0,023 W/m K
Tensile strength	80 kPa	Thermal transmittance U _c	0,50 W/(m ² K)
Tensile E-modulus	2,25 MPa	Fire reaction class	NPD
Compressive strength	120 kPa	External fire exposure of roof	B _{roof} (t ₁)
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 m ³ /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			
The product conforms to PN-EN 14509, including: dimensional tolerances comply with Appendix D. The characteristic values for mechanical properties were obtained by applying a rule of combining products, and were included in Appendix 2. When in use sandwich panels pose no risk to hygiene, health or safety of humans. They comply with 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 of the European Parliament under the sole responsibility of the producer identified above

Chorzów, 26.10.2022

WICEPREZES ZARZĄDU

mgr inż. Marek Romański

Signed on behalf of the producer:
(full name)

Declaration of performance no. 28/U/D

1. Identification code of the product type / Trademark: PW PUR-D 60

Roof sandwich panel with polyurethane core, marked with the symbol PW PUR-D 60, 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. Michałkowicka 24.

4. Evaluation and verification system of product performances:

Conformity valuation system 3.

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

6. Declared values of steel facings:

Facing thicknesses: 0.4; 0.5; 0.6 mm;

R- minimum yield strength of steel faces 220 MPa;

Corrosion protection system with two protective coatings: metallic and organic.

7. Declared values:

PW PUR-D 60			
Apparent core density	40 kg/m ³ +/-3 kg/m ³	Thermal conductivity λ_D	0,023 W/m K
Tensile strength	80 kPa	Thermal transmittance U_c	0,35 W/(m ² K)
Tensile E-modulus	2,25 MPa	Fire reaction class	NPD
Compressive strength	120 kPa	External fire exposure of roof	$B_{roof}(t_1)$
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 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			
The product conforms to PN-EN 14509, including: dimensional tolerances comply with Appendix D. The characteristic values for mechanical properties were obtained by applying a rule of combining products, and were included in Appendix 2. When in use sandwich panels pose no risk to hygiene, health or safety of humans. They comply with Regulation (EC) No. 1907/2006.			

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WICEPREZES ZARZĄDU

mgr inż. Marek Romański

Signed on behalf of the producer:
(full name)

Declaration of performance no. 29/U/D

1. Identification code of the product type / Trademark: PW PUR-D 80

Roof sandwich panel with polyurethane core, marked with the symbol PW PUR-D 80, 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.

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

6. Declared values of steel facings:

Facing thicknesses: 0.4; 0.5; 0.6 mm;

R- minimum yield strength of steel faces 220 MPa;

Corrosion protection system with two protective coatings: metallic and organic.

7. Declared values:

PW PUR-D 80			
Apparent core density	40 kg/m ³ +/-3 kg/m ³	Thermal conductivity λ_D	0,023 W/m K
Tensile strength	80 kPa	Thermal transmittance U_c	0,27 W/(m ² K)
Tensile E-modulus	2,25 MPa	Fire reaction class	NPD
Compressive strength	120 kPa	External fire exposure of roof	B _{roof} (t ₁)
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 m ³ /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			
The product conforms to PN-EN 14509, including: dimensional tolerances comply with Appendix D. The characteristic values for mechanical properties were obtained by applying a rule of combining products, and were included in Appendix 2. When in use sandwich panels pose no risk to hygiene, health or safety of humans. They comply with Regulation (EC) No. 1907/2006.			

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Chorzów, 26.10.2022

WICEPREZES ZARZĄDU

mgr inż. Marek Romański

Signed on behalf of the producer:
(full name)

Declaration of performance no. 31/U/D

1. Identification code of the product type / Trademark: **PW PUR-D 100**

Roof sandwich panel with polyurethane core, marked with the symbol PW PUR-D 100, 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.

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

6. Declared values of steel facings:

Facing thicknesses: 0.4; 0.5; 0.6 mm;

R- minimum yield strength of steel faces 220 MPa;

Corrosion protection system with two protective coatings: metallic and organic.

7. Declared values:

PW PUR-D 100			
Apparent core density	40 kg/m ³ +/-3 kg/m ³	Thermal conductivity λ_0	0,023 W/m K
Tensile strength	80 kPa	Thermal transmittance U_c	0,22 W/(m ² K)
Tensile E-modulus	2,25 MPa	Fire reaction class	NPD
Compressive strength	120 kPa	External fire exposure of roof	B _{roof} (t ₁)
Compressive E-modulus	2,80 MPa	Roof fire resistance class	RE 30
Shear strength	120 kPa	Water permeability	B
Shear E-modulus	2,80 MPa	Air permeability	≤1,5 m ³ /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			
The product conforms to PN-EN 14509, including: dimensional tolerances comply with Appendix D. The characteristic values for mechanical properties were obtained by applying a rule of combining products, and were included in Appendix 2. When in use sandwich panels pose no risk to hygiene, health or safety of humans. They comply with Regulation (EC) No. 1907/2006.			

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WICEPREZES ZARZĄDU

mgr inż. Marek Romański

Signed on behalf of the producer:
(full name)

Declaration of performance no. 32/U/D

1. Identification code of the product type / Trademark: **PW PUR-D 120**

Roof sandwich panel with polyurethane core, marked with the symbol PW PUR-D 120, 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.

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

6. Declared values of steel facings:

Facing thicknesses: 0.4; 0.5; 0.6 mm;

R- minimum yield strength of steel faces 220 MPa;

Corrosion protection system with two protective coatings: metallic and organic

7. Declared values:

PW PUR-D 120			
Apparent core density	40 kg/m ³ +/-3 kg/m ³	Thermal conductivity λ_D	0,023 W/m K
Tensile strength	80 kPa	Thermal transmittance U_c	0,18 W/(m ² K)
Tensile E-modulus	2,25 MPa	Fire reaction class	NPD
Compressive strength	120 kPa	External fire exposure of roof	B _{roof} (t ₁)
Compressive E-modulus	2,80 MPa	Roof fire resistance class	RE 30
Shear strength	120 kPa	Water permeability	B
Shear E-modulus	2,80 MPa	Air permeability	≤1,5 m ³ /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			
The product conforms to PN-EN 14509, including: dimensional tolerances comply with Appendix D. The characteristic values for mechanical properties were obtained by applying a rule of combining products, and were included in Appendix 2. When in use sandwich panels pose no risk to hygiene, health or safety of humans. They comply with Regulation (EC) No. 1907/2006.			

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Chorzów, 26.10.2022

WICEPREZES ZARZĄDU

mgr inż. Marek Romański

Signed on behalf of the producer:
(full name)

Declaration of performance no. 33/U/D

1. Identification code of the product type / Trademark: PW PUR-D 160

Roof sandwich panel with polyurethane core, marked with the symbol PW PUR-D 160, 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.

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

6. Declared values of steel facings:

Facing thicknesses: 0.4; 0.5; 0.6 mm;

R- minimum yield strength of steel faces 220 MPa;

Corrosion protection system with two protective coatings: metallic and organic.

7. Declared values:

PW PUR-D 160			
Apparent core density	40 kg/m ³ +/-3 kg/m ³	Thermal conductivity λ_D	0,023 W/m K
Tensile strength	80 kPa	Thermal transmittance U_c	0,14 W/(m ² K)
Tensile E-modulus	2,25 MPa	Fire reaction class	NPD
Compressive strength	110 kPa	External fire exposure of roof	B _{roof} (t _i)
Compressive E-modulus	2,80 MPa	Roof fire resistance class	RE 30
Shear strength	110 kPa	Water permeability	B
Shear E-modulus	3,00 MPa	Air permeability	≤1,5 m ³ /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			
The product conforms to PN-EN 14509, including: dimensional tolerances comply with Appendix D. The characteristic values for mechanical properties were obtained by applying a rule of combining products, and were included in Appendix 2. When in use sandwich panels pose no risk to hygiene, health or safety of humans. They comply with Regulation (EC) No. 1907/2006.			

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WICEPREZES ZARZĄDU

mgr inż. Marek Romański

Signed on behalf of the producer:
(full name)

Declaration of performance no. 34/U/D

1. Identification code of the product type / Trademark: PW PUR-D 145

Roof sandwich panel with polyurethane core, marked with the symbol PW PUR-D 145, modular width 1050 [mm] and thickness 145 [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.

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

6. Declared values of steel facings:

Facing thicknesses: 0.4; 0.5; 0.6 mm;

R- minimum yield strength of steel faces 220 MPa;

Corrosion protection system with two protective coatings: metallic and organic.

7. Declared values:

PW PUR-D 145			
Apparent core density	40 kg/m ³ +/-3 kg/m ³	Thermal conductivity λ_D	0,023 W/m K
Tensile strength	80 kPa	Thermal transmittance U_c	0,16 W/(m ² K)
Tensile E-modulus	2,25 MPa	Fire reaction class	NPD
Compressive strength	110 kPa	External fire exposure of roof	B _{roof} (t ₁)
Compressive E-modulus	2,80 MPa	Roof fire resistance class	RE 30
Shear strength	110 kPa	Water permeability	B
Shear E-modulus	3,00 MPa	Air permeability	≤1,5 m ³ /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			
The product conforms to PN-EN 14509, including: dimensional tolerances comply with Appendix D. The characteristic values for mechanical properties were obtained by applying a rule of combining products, and were included in Appendix 2. When in use sandwich panels pose no risk to hygiene, health or safety of humans. They comply with Regulation (EC) No. 1907/2006.			

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