

**Manufacturer:**

Europanel Sp. z o.o., 5/81 Inflancka Street, 00-189 Warszawa, Poland

Production plant: 35 Latkowo, 88-100 Inowrocław, Poland

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**Certificate of Conformity – Declaration of Performance**

ref. no. PS100/EP/L,M,P/1/2017/ENG

**Product name (ID code):** PolTherma PS 100 L, M, P

**Use:** External walls, internal walls, ceilings

**Product description:** Metal faced insulating panel for use in buildings

**European standard:** EN 14509:2013-12 „Self-supporting double skin metal faced insulating panels – Factory made products – Specifications “

**System of conformity:** fire performance: System 3, other performances: System 4

**ID of the notified bodies:** ITB Warszawa, notification no. 1488; FIRES s.r.o. Batizovce, notification no. 1396

**Declared performance parameters of the product:**

**Facings:** Steel metal plate galvanized according to EN 10346, thickness range 0,4 to 0,7 mm in tolerances according to EN 10143. Protective coats according to EN 10169. Colours according to RAL Classic.

**Profiling of external facing:** L (linear), M (micro profiled), P (plain)

**Profiling of internal facing:** L (linear), M (micro profiled), R (rabbet), P (plain)

**Thermal insulation:** European PU Wall System Core, density 38 +/- 3 kg/m<sup>3</sup>, nominal thickness 97 mm

**Thermal transmittance  $U_{d,s}$ :** 0,23 W/m<sup>2</sup>K

**Declared thermal conductivity  $\lambda_D$ :** 0,022 W/mK

**Weight:** 13,0 kg/m<sup>2</sup>

**Fire parameters:**

- reaction to fire of the core (ignition test according to EN ISO 11925-2):  
class E

- reaction to fire of the product (classification according to EN 13501-1):  
B-s2,d0

- fire resistance of the partition made out of the product (classification according to EN 13501-2):

EI 15 (i→o); EI 15-ef (o→i)

E 15 (i→o)

**Durability:** Fulfils, for all colours

**Dimensional tolerances:** Fulfils

**Tightness:**

- water permeability: class A (1 200 Pa)
- air permeability:  $\leq 0,10 \text{ m}^3/\text{h}/\text{m}^2$
- steam permeability: fulfils, impermeable

**Acoustic parameters:**

- airborne sound insulation:  $R_w$  26 (-3, -4) dB
- sound absorption:  $\alpha_w = 0,15$

**Shear strength  $f_{cv}$ :** 0,08 MPa; **Shear modulus (core)  $G_c$ :** 1,78 MPa

**Creep coefficient  $\phi_t$ :** t=2 000h: NPD; t=100 000h: NPD

**Compressive strength (core)  $f_{cc}$ :** 0,09 MPa; **Compressive E-modulus (core)  $E_{cc}$ :** 2,32 MPa

**Tensile strength  $f_{ct}$ :** 0,05 MPa; **Tensile E-modulus of the core (+20 °C)  $E_{ct}$ :** 2,81 MPa

**Bending resistance in span  $M_u$  ; S280; 0,5 mm (for 0,4 mm in brackets):**

- positive bending, external, ambient temperature: 6,69 kNm/m
- positive bending, external, elevated temperature: 6,30 kNm/m
- negative bending, internal, ambient temperature: 5,84 (4,57) kNm/m
- negative bending, internal, elevated temperature: 5,50 (4,31) kNm/m

**Bending resistance at an internal support  $M_u$  ; S280; 0,5 mm (for 0,4 mm in brackets):**

- negative bending, ambient temperature: 5,41 kNm/m
- negative bending, elevated temperature: 5,09 kNm/m
- positive bending, ambient temperature: 5,16 (4,04) kNm/m
- positive bending, elevated temperature: 4,86 (3,80) kNm/m

**Wrinkling stress, external facing  $\sigma_w$  ; S280**

- in span, ambient temperature: 146,03 MPa
- in span, elevated temperature: 137,55 MPa
- at central support, ambient temperature 118,05 MPa
- at central support, elevated temperature: 111,20 MPa

**Wrinkling stress, internal facing  $\sigma_w$  ; S280**

- in span, ambient temperature: 127,52 MPa
- in span, elevated temperature: 120,11 MPa
- at central support, ambient temperature: 112,60 MPa
- at central support, elevated temperature: 106,06 MPa

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WARSAWA, January 2<sup>nd</sup> 2017  
Place and date

**EUROPANELS**

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Web site with declaration for download: [www.europanel.s.pl](http://www.europanel.s.pl)