

**Manufacturer:**

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

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

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**Certificate of Conformity – Declaration of Performance**

ref. no. CS120/EP/L,M,R,P/1/2017/ENG

**Product name (ID code):** PolTherma CS 120 L, M, R, P

**Use:** External walls, internal walls, ceilings with speciality of Cold Storage

**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 0,5 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), R (rabbet), P (plain)

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

**Thermal insulation:** PU rigid foam Europan PU Wall System Core, density  $38 \pm 3 \text{ kg/m}^3$ , nominal thickness 118 mm

**Thermal transmittance  $U_{d,s}$ :** 0,18 W/m<sup>2</sup>K

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

**Weight:** 13,4 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

**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  $f_{cv}$ :** 0,098 MPa; **Shear modulus (core)  $G_c$ :** 2,65 MPa

**Creep coefficient  $\phi_t$ :**  $t=2\ 000\text{h}$ : 2,74;  $t=100\ 000\text{h}$ : 3,43

**Compressive strength (core)  $f_{cc}$ :** 0,09 MPa; **Compressive E-modulus (core)  $E_{cc}$ :** 2,16 MPa

**Tensile strength  $f_{ct}$ :** 0,05 MPa; **Tensile E-modulus of the core (+20 °C)  $E_{ct}$ :** 2,86 MPa

**Bending resistance in span  $M_u$ ; S280; 0,5mm**

- positive bending, external, ambient temperature: 8,25 kNm/m
- positive bending, external, elevated temperature: 8,11 kNm/m
- negative bending, internal, ambient temperature: 8,06 kNm/m
- negative bending, internal, elevated temperature: 7,93 kNm/m

**Bending resistance at an internal support  $M_u$ ; S280; 0,5mm**

- negative bending, ambient temperature: 7,88 kNm/m
- negative bending, elevated temperature: 7,74 kNm/m
- positive bending, ambient temperature: 6,92 kNm/m
- positive bending, elevated temperature: 6,80 kNm/m

**Wrinkling stress, external facing  $\sigma_w$ ; S280; 0,5mm**

- in span, ambient temperature: 151,74 MPa
- in span, elevated temperature: 149,15 MPa
- at central support, ambient temperature 143,54 MPa
- at central support, elevated temperature: 141,09 MPa

**Wrinkling stress, internal facing  $\sigma_w$ ; S280; 0,5mm**

- in span, ambient temperature: 148,40 MPa
- in span, elevated temperature: 145,88 MPa
- at central support, ambient temperature: 127,30 MPa
- at central support, elevated temperature: 125,14 MPa

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WARSZAWA, January 2<sup>nd</sup> 2017

Place and date

**EUROPANELS**

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**Prokurent**

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