

DECLARATION OF PERFORMANCE

No. 30/2022

1. Unique identification code of the product-type:

PENOBOARD XPS 300 EXTRUDED POLYSTYRENE

2. Intended use or uses:

- Thermal insulation of buildings
- Thermal insulation of doors
- Manufacture of sandwich panels
- Thermal insulation of installations and industrial equipment

3. Manufacturer:

"Elit Plast" Ltd
73035, Kherson, Ukraine, 23 Vostochnaya str., build 41a
46005 Tarnopol, Ukraine, Mikulinetska str., build 46 b.
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- 4. Authorized representative:
- 5. System of assessment and verification of constancy of performance:

System 3

6. Harmonized standard: EN13164:2012+A1:2015

Notified unit or units: TZUS nr 1020

7. Declared performance:

Table 1.

Table 1.				
Essential characteristics	Performance – Declared level (class/limit value/NPD ₁)	Harmonized technical specification		
Thermal resistance	 Thermal resistance RD – see Table 2 Declared thermal conductivity coefficient λ_D - 0,036 W/(m*K) Thickness, d_N – T(1) (± 1mm), d_N (see			
Reaction to fire	Reaction to fire RtF - Class E			
Durability of reaction to fire in heat function to weather conditions aging/degradation	Does not change in time - Class E			
Durability of thermal resistance in heat function to weather conditions aging/degradation	 Thermal resistance RD – see Table 2 Declared thermal conductivity coefficient λD - 0,036 W/(m*K) 			
	3) Durability to freezing/defrosting: A) Resistance to freezing – defrosting after water absorption with prolonged immersion FTCI – NPD B) Resistance to freezing – defrosting after water absorption with prolonged dissusion			
Compressive strength	FTCD – NPD Compression stress at 10% deformation CS (10/Y) for thickness: 1) 20 mm ≥ 200 kPa 2) 30 mm ≥ 250 kPa	EN 13164:2012+A1:201		
	3) 40mm - 70mm ≥ 300 kPa 4) 80mm – 150 mm ≥ 300-350 kPa+			
Resistance to stretching/bending	Resistance to streching perpendicular to frontal surface – NPD			
Durability of compressive strength in aging and degradation	1) Crawling at compression CC (2/1,5/50) – NPD 2) Resistance to freezing/defrosting – NPD 3) Prolonged thickness reduction – NPD			
Water permeability	 Prolonged water absorption after full immersion - WL(T) ≤ 0,5 % volume Prolonged water absorption through diffusion - WD(V) ≤ 1 % weight 			
Water vapour permeability	Water vapour permeability - NPD			
Continous burning in the form of embers	Continous burning in the form of embers - NPD			
Release of dangerous substances for the internal environment	Release of dangerous substances - NPD			

¹⁾ NDP - No Performance Determined

^{*} termobonding

Table 2.

Thickness d _N (mm)	Thermal resistance (R _D) m2 K/W	Thickness d _N (mm)	Thermal resistance (R _D) m2 K/W	Thickness d _N (mm)	Thermal resistance (R _D) m2 K/W	Thickness d _N (mm)	Thermal resistance (R _D) m2 K/W
20 mm	0,55	50 mm	1,38	80 mm	2,20	140 mm	4,12
30 mm	0,83	60 mm	1,65	100 mm	2,75	150 mm	4,41
40 mm	1,10	70 mm	1,93	120 mm	3,30		

The performance characteristics of the product specified above are consistent with the set of declared performance. The present declaration of performance is issued in accordance with Regulation (UE) no. 305/2011 under the sole responsibility of the manufacturer as definied above.

On behalf of the manufacturer signed by (name and position)

Kherson, May 30, 2022

Engineer-laboratory assistant

ЛАБОРАТОРІЯ
ТОВ "ВКФ ЕЛІТ ПЛАСТ"

інж. лаб.

Garanenko Y.V.