

# DECLARATION OF PERFORMANCE

## XPS300/10/2020

Date of release:  
21.10.2020

1. Unique product type identification code:	HOCH XPS 300
2. Intended use:	Extruded polystyrene board intended for thermal insulation in the construction industry.
3. Manufacturer:	HOCH Systemy Kominowe Sp. z o.o. Sp.k., ul. Jana Pawła II 56, 83-422 Nowy Barkoczyn, Poland
4. System of assessment and verification of performance constancy:	Systems 3 and 4 (for reaction to fire class)
5. Harmonised standard:	EN 13164: 2012 + A1: 2015
6. Notified body:	1434

### DECLARED PERFORMANCE

Essential characteristics		Symbol / Unit	Performance characteristics
Thermal resistance and thermal conductivity	Heat conductivity coefficient	$\lambda_b$ [W/mK]	Table 1
	Thermal resistance	$R_b$ [m <sup>2</sup> K/W]	Table 1
	Thickness	$d_N$ [mm]	Table 1
Reaction to fire	Fire reaction class	Euroclass	F
Durability of reaction to fire as a function of heat, weathering, ageing and degradation	Durability characteristics	Euroclass	Does not change
Durability of thermal resistance as a function of heat, weather conditions of ageing and degradation	Thermal resistance and heat conduction coefficient	$\lambda_b$ [W/mK] $R_b$ [m <sup>2</sup> K/W]	Table 1
	Durability characteristics	DS(TH) [%]	≤ (70,90) 5
		DLT(2)5 [%]	NPD
	Freeze resistance – defrosting after water absorption test with diffusion of FTCD NPD	FTCD	NPD
	Resistance to freezing – defrosting after long term water absorption test by dipping FTCl NPD	FTCl	NPD
Compressive strength	Compressive strength at 10% strain	CS(10/Y) [kPa]	≥ 300
Tensile strength	Tensile strength perpendicular to face surfaces	TR [kPa]	NPD
Compressive strength under ageing or degradation	Creep at compression	CC [kPa]	NPD
Water permeability	Water absorbability when submerged for a long time	WL(T) [%]	≤ 0,7
	Water absorbability at long-term diffusion	WD(V)	NPD
Water vapour permeability	Diffusion resistance factor	MU	NPD
Release of hazardous substances into the internal environment	Release of hazardous substances	---	NPD
Continuous glow combustion	Continuous glow combustion	---	NPD

\* NPD – performance not determined

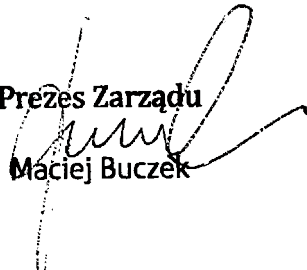
Table 1. The value of the heat conduction coefficient and thermal resistance for a given panel thickness.

Thickness (class T1)	Declared heat conductivity coefficient $\lambda_0$	Declared thermal resistance $R_0$
30		0,90
40	$\leq 0,032$	1,25
50		1,55
60		1,75
80	$\leq 0,034$	2,35
100		2,90
120		3,30
150	$\leq 0,036$	4,15

The performance of the product defined above is in accordance with the set of declared performance. This Declaration of Performance is issued pursuant to the Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer referred to above.

Nowy Barkoczyn, 21 October 2020

Signed on behalf of the manufacturer by:

**Prezes Zarządu**  
  
**Maciej Buczek**