DECLARATION OF PERFORMANCE
XPS500/04/2022

1.	Unique product type identification code:	HOCH XPS 500
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 CHARACTERISTICS

Essential characteristics		Symbol / Unit	Performance characteristics
Thermal resistance and thermal conductivity	Thermal conductivity coefficient	λ_D [W/mK]	Table 1.
	Thermal resistance	R_D [m²K/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	F — does not change over time
Durability of thermal resistance as a function of heat, weather conditions of ageing and degradation	Thermal resistance and heat conduction coefficient	λ_D [W/mK] R_D [m²K/W]	Table 1.
	Durability characteristics	DS(TH) [%]	NPD
		DLT(2)5 [%]	NPD
	Freeze resistance — defrosting after water absorbability test with long lasting diffusion	FTCD [%]	NPD
	Resistance to freezing — defrosting after testing long lasting water absorption by immersion	FTCI [%]	NPD
Compressive strength	Compressive strength at 10% strain	CS(10/Y) [kPa]	≥ 500
Tensile strength	Perpendicular tensile strength applied from face surfaces	TR [kPa]	NPD
Durability of compressive strength under ageing or degradation conditions	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

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

Thickness (Class T1)	Declared heat conductivity coefficient λ_D	Declared thermal resistance R_D
50	≤ 0.034	1.45
80		2.35
100	≤ 0.036	2.75
120		3.30

Nowy Barkoczyn, 28/04/2022

Signed on behalf of the manufacturer by:

Prezes Zarządu
Maciej Buczek

HOCH Systemy Kominowe Sp. z o.o. Sp.k.
83-422 Nowy Barkoczyn, Poland
ul. Jana Pawła II 56

T: +48 535 937 937
E: biuro@hoch.com.pl
www.hoch.com.pl

Tax ID No. (NIP): 591-169-90-65
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