

DECLARATION OF PERFORMANCE

5002/2021/CPR/XPS Version no. 1

1. UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE: **XPS – EN 13164 – T1 – CS(10\Y)500 – CC(2/1,8/10)190 – DS(70,90) – WL(T)0,7 – FTCD2 – TR500 – WD(V)2 – MU50 **PENOPLEX® EXTRA****
2. INTENDED USE: **Thermal insulation for buildings (ThIB)**
3. MANUFACTURER: **PENOPLEX SPb, 1-A Saperny per., 191014, St. Petersburg, Russian Federation**
4. AUTHORIZED REPRESENTATIVE: **Not relevant**
5. SYSTEM OF AVCP: **System 3**
6. HARMONIZED STANDARD: **EN 13164:2012 + A1:2015**
7. NOTIFIED BODIES:
No. 1020: Technický a zkušební ústav stavební Praha, s.p. (Technical and Test Institute for Construction Prague), Prosecká 811/76a, 190 00 Praha 9 – Prosek, Czech Republic
No. 1434: POLSKIE CENTRUM BADAN I CERTYFIKACJI S.A. (Polish Centre for Testing and Certification), Jakuba Wejhera str.18a, 80-346, Gdańsk, Poland



8. DECLARED PERFORMANCE OF PENOPLEX EXTRA

ESSENTIAL CHARACTERISTICS		PERFORMANCE	HARMONIZED TECHNICAL SPECIFICATIONS
Reaction to fire		Euroclass	E
Glowing combustion		No harmonized methods defined yet	NPD
Dimensional tolerances		Class	T1
Thermal resistance and thermal conductivity	Declared thermal conductivity λ_D [W/m·K]	Nominal thickness d_N [mm]	Declared thermal resistance R_D [m ² ·K/W]
	0,034	20	0,55
	0,034	30	0,85
	0,034	40	1,15
	0,034	50	1,45
	0,034	60	1,75
	0,034	80	2,35
	0,034	100	2,90
	0,035	120	3,40
	0,035	150	4,25
Compressive strength	Compressive strength or Compressive Stress at 10% deformation	CS(10\Y)	CS(10\Y)500 (≥500 kPa)
Compressive creep	Compressive creep after relative deformation 10 years on 2%	CC(2/1,8/10)	CC(2/1,8/10)190
Tensile strength	Tensile strength perpendicular to faces	TR	TR500
Water permeability	Long term water absorption	WL(T)	WL(T)0,7 (≤ 0,7 [Vol.-%])
	Long term water absorption by diffusion	WD(V)	WD(V)2
Water vapour permeability	Water vapour diffusion resistance factor	MU	MU50
Durability of reaction to fire against heat, weathering, ageing/degradation	Reaction to fire of XPS products does not change with time		
Durability of thermal resistance against heat, weathering, ageing/ degradation/freeze thaw	Dimensional stability under specified conditions 70°C; 90% r.h.	DS	DS(70, 90)
	Deformation under specified compressive load of 40 kPa and temperature conditions at 70°C	DLT	NPD
	Freeze-thaw resistance after long term water absorption by diffusion	FTCD	FTCD2
	Freeze-thaw resistance after long term water absorption by total immersion	FTCI	NPD
Dangerous substances	Release of dangerous substances to the indoor environment	–	–

EN 13164:2012 + A1:2015

9. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above

SIGNED FOR AND ON BEHALF OF THE MANUFACTURER BY:
Igor Levchenkov, Commercial Director, Penoplex SPb.
 Russia, Saint-Petersburg, 22 March 2021

