PENOPLEX®
effective thermal insulation

BASE

DECLARATION OF PERFORMANCE

2001/2021/CPR/XPS Version no. 1

1. UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:	**XPS – EN 13164 – T1 – CS(10\Y)200 – CC(2/1,9(10)100 – WL(T)0,7 PENOPLEX® BASE**
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 BASE

ESSENTIAL CHARACTERISTICS			PERFORMANCE	HARMONIZED TECHNICAL SPECIFICATIONS
Reaction to fire		Euroclass	F	EN 13164:2012 + A1:2015
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 [m²·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	90	2,60	
	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)200 (≥200 kPa)	
Compressive creep	Compressive creep after relative deformation 10 years on 2%	CC(2/1,9/10)	CC(2/1,9/10) 100 (100 kPa)	
Tensile strength	Tensile strength perpendicular to faces	TR	NPD	
Water permeability	Long term water absorption	WL(T)	WL(T)0,7 (≤ 0,7 [Vol.-%])	
	Long term water absorption by diffusion	WD(V)	NPD	
Water vapour permeability	Water vapour diffusion resistance factor	MU	NPD	
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	NPD	
	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	NPD	
	Freeze-thaw resistance after long term water absorption by total immersion	FTCI	NPD	
Dangerous substances	Release of dangerous substances to the indoor environment	–	–	

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