PENOPLEX®
effective thermal insulation

KOMFORT 20 – 60

DECLARATION OF PERFORMANCE

1503/2/2021/CPR/XPS Version no. 1

UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:	**XPS – EN 13164 – T1 – CS(10\Y)150 – CC(2/1,9/10)100 – WL(T)0,7** **PENOPLEX® KOMFORT (20-60)**
INTENDED USE:	**Thermal insulation for buildings (ThIB)**
MANUFACTURER:	**PENOPLEX SPb, 1-A Saperny per., 191014, St. Petersburg, Russian Federation**
AUTHORIZED REPRESENTATIVE:	**Not relevant**
SYSTEM OF AVCP:	**System 3**
HARMONIZED STANDARD:	**EN 13164:2012 + A1:2015**
NOTIFIED BODY:	**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**
APPROPRIATE TECHNICAL DOCUMENTATION AND/OR SPECIFIC TECHNICAL DOCUMENTATION:	**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**

DECLARED CHARACTERISTICS OF PENOPLEX KOMFORT 20-60

ESSENTIAL CHARACTERISTICS			PERFORMANCE	HARMONISED 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	
Compressive strength	Compressive strength or Compressive Stress at 10% deformation	CS(10\Y)	CS(10\Y)150 (≥150 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	–	–	

NPD = No Perfomance Determined

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