



**Declaration of Performance
No. 3/2018/CPR/XPS**

1. Unique identification code of the product type:

XPS -EN 13164-T2-CS(10Y)500-CC(2/1,8/10)190-DS(70,90)-DLT(2)5-WL(T)0,7-WD(V)2-FTCD1
PENOPLEX[®] 45

2. Intended use:

Products are used as thermal insulation. Product applications are specified in the web site www.penoplex.ru

3. Manufacturer:

PENOPLEX SPb, Ltd. Branch in Kirishi, sil. Enthusiastov 36, 187110, Kirishi, Leningrad Region, Russian Federation.

4. Authorized representative:

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5. System of AVCP

System 3

6. Harmonized standard:

EN 13164:2012 + A1:2015

Notified body:

NB 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

7. Ilmoitetut suoritusastot:

Essential characteristics		Performance	Harmonised technical specifications			
Reaction to fire		Class E	EN 13164: 2012 + A1:2015			
Glowing combustion		No harmonized methods defined yet				
Acoustic absorption index		-				
Dimensional tolerances		T				
Thermal resistance and thermal conductivity	Declared thermal conductivity λ_D [W/m ² *K]	Nominal thickness dN [mm]		Declared thermal resistance RD [m ² *K/W]		
					20	0,59
					30	0,88
					40	1,18
					50	1,47
					60	1,76
			80		2,35	
			100		2,94	
120	3,53					
150	4,41					
Compressive strength	Compressive strength or Compressive Stress at 10% deformation	CS(10Y)	500 kPa			
Compressive creep	Compressive creep after relative deformation 10 years on 2 %	CC (2/1,9/10)	190 kPa			



Tensile strength	Tensile strength perpendicular to faces	TR	NPD
Water permeability	Long term water absorption	WL(T)0,7	≤ 0,7 [Vol.-%]
	Long term water absorption by diffusion	WD(V)3	≤ 1 [Vol.-%]
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	(70,90)
	Deformation under specified compressive load of 40 kPa and temperature conditions at 70°C	DLT	(2)5
	Freeze-thaw resistance after long term water absorption by diffusion	FTCD	1
	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

NPD= No Performance Determined

Safety data sheet: http://www.penoplex.ru/files/sertificats/penoplex_material_safety_data_sheet.pdf

8. 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.

9. Signed for and on behalf of the manufacturer by:

Alexander Belov, Deputy of General Director of sales, Penoplex SPb Ltd.
Russia, Saint-Petersburg, November 2018

DOP-No. 3/2018/CPR/XPS