

DECLARATION OF PERFORMANCE

XPan Zentyss TB – multilayer extruded polystyrene panels

1.	Product Type: Unique identification code of the product-type:	XPS EN 13164-T1-DS(70,90)5-DLT(1)5-CS(10/Y)300-TR200- CC(2/1,5/50)100-WD(V)3 - WL(T)0.7-MU150-FTCI1
	<p>XPS thick 80–120 mm, embossed surface(W), edge: straight (D) / step cut (F) XPan Zentyss TB: 80 mm WD / 80 mm WF XPan Zentyss TB: 100 mm WD / 100 mm WF XPan Zentyss TB: 120 mm WD / 120 mm WF</p> <p>XPS thick 80–120 mm, smooth surface (S,) edge: straight (D) / step cut (F) XPan Zentyss TB: 80 mm SD / 80 mm SF XPan Zentyss TB: 100 mm SD / 100 mm SF XPan Zentyss TB: 120 mm SD / 120 mm SF</p>	
2.	Type, batch or serial number according to Article 11 (4):	XPS -extruded polystyrene foam panels, Lot no. / date / schift (time) - see label and product (the data label on each pack)
3.	Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:	Thermal insulation for buildings (ThIB)
4.	Name, registered trade name and contact address of the manufacturer:	SC OPAL TECHNOLOGIES SRL, Romania, Izbiceni Street no.117-119, Floor 2, Bucharest, District 1 Tel.: + 40.338.101.376
5.	AVCP: System of assessment and verification of constancy of performance(AVCP) of the construction product as set out in CPR AnnexV:	System 3
6.	Notified body (hEN): In case of the declaration of performance (DoP) concerning a construction product covered by a harmonized standard:	1. ICECONTEST Romania, NB 1803 2. CEIS Spain - Notified bodies NB 1722
7.	Declared performance	

Essential characteristics	Performance		Harmonized standard	
Thermal resistance	Thermal resistance		EN 13164:2012 +A1:2015	
	Thermal conductivity, λ_D	R_D (see tab.1) $\lambda_D = 0,037$ W/mK		
	Thick, d_N	$d_N=80-120$ mm, T1		
Reaction to fire, RtF	Class of reaction to fire		E	
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability characteristics		NPD	
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance		EN 13164:2012 +A1:2015	
	Thermal conductivity	$d_N=80-120$ mm $\lambda_D = 0,037$ W/mK		
	Dimensional stability under specified conditions of temperature and humidity Deformation under specified compressive load and temperature conditions			≤ 5 % DS(70,90)5 ≤ 5 % DLT(1)5
	Freeze –thaw resistance after long term water absorption by immersion			≤ 1 % (FTCI1)

Essential characteristics	Performance		Harmonized standard
Compressive strength	Compressive stress	d _N =20 mm	CS(10/Y)200
		d _N =30-120mm	CS(10/Y)300
Tensile/ Flexural strength	Tensile strength perpendicular to faces		≥ 200 kPa, TR200
Durability of compressive strength against weathering, ageing/degradation	Compressive creep		CC(2/1,5/50)100
Water permeability	Long term water absorption by total immersion or Long term water absorption after diffusion		WL(T)0,7 WD(V)3
	Water vapour permeability		MU150
Release of dangerous substances to the indoor environment	Release of dangerous substances		CFC / HCFC /HFC free HBCD free
Continuos glowing combustion	Continuos glowing combustion		NPD

EN 13164:2012
+A1:2015

Tab. 1 Dimensional structure of the packages and Thermal resistance R_D (depending on the thickness)

Thickness XPS panels (mm)	Panel with straight edges			Step cut edges			Thermal resistance R _D
	Panel size: 1250 x 600 mm			Panel size: 1250 x 600 mm			
	useful dimensions: 1250x600mm			useful dimensions: 1235x585mm			
	panel area: 0,75 m ²			panel area: 0,722 m ²			
	Panels/pack	m ² /pack	m ³ /pack	Panels/pack	m ² /pack	m ³ /pack	
80	5	3,75	0,3	5	3,61	0,289	2,15 m ² K/W
100	4	3	0,3	4	2,89	0,289	2,70 m ² K/W
120	3	2.25	0.27	3	2.16	0.26	3,20 m ² K/W

Declaration

8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance (DoP) is issued under the sole responsibility of the manufacturer identified in point 4

Signed for and on behalf of the manufacturer by:

Bucharest, 30.05.2022

Ion Vinatoru
Technical Director

