DECLARATION OF PERFORMANCE

No. 17/S036_100TA

1. Unique identification code of product type:

EPS 100 036 TERRA AQUA BASE
EPS EN 13163 T(1)-L(2)-W(2)-S_b(5)-P(5)-BS150-CS(10)100-DS(N)2-DS(70,-)1-DLT(1)5-WL(T)4

2. Intended use(s):

Thermal insulation in building industry.

3. Manufacturer:

Paneltech Sp. z o.o., 41-508 Chorzów, ul. Michałkowicka 24, Poland.

4. System(s) of assessment and verification of constancy of performance:

System 3

5. Harmonized standard:

EN 13163:2012+A1:2015

Notified Body (Bodies):
- Research Laboratory of the Institute of Mechanised Construction and Rock Mining (Notified Body No. 1454)

6. Declared performance:

Table 1

Essential characteristics	Performance	Declared level/class/limit/ NPD[1)]	Harmonized technical specification
Thermal resistance	Thermal resistance R_D Thermal conductivity coefficient λ_D	See Table 2 0,036 [W/mK]	EN 13163: 2012+A1:2015
	Thickness, d_N	T(1) (±1 mm) d_N (See Table 2)	
Reaction to fire	Reaction to fire	E	
Stability of reaction to fire as a function of heat, atmospheric conditions, ageing/degradation	Stability of performance[2)]	E	
Stability of thermal resistance as a function of heat, atmospheric conditions, ageing/degradation	Thermal resistance R_D[3)] Declared thermal conductivity coefficient λ_D[3)]	See Table 2 0,036 [W/mK]	
	Stability of performance	DS(70,-)1	
Compression resistance	Compressive stress at 10% deformation	CS(10)100 (≥100 kPa)	

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Essential characteristics	Performance	Declared level/class/limit/ NPD[1)]	Harmonized technical specification
Tensile/bending strength	Bending strength	BS150 (≥150 kPa)	EN 13163: 2012+A1:2015
	Tensile strength perpendicular to faces	NPD	
Stability of compression strength as a function of ageing and degradation	Creep in compression	NPD	
	Freeze-thaw resistance	NPD	
	Long-term reduction of thickness	NPD	
Water permeability	Water absorption under long-term immersion	WL(T)4 (≤4%)	
	Water absorption under long-term diffusion	NPD	
Vapour permeability	Vapour transmission	NPD	
Impact sound insulation index (for floors)	Dynamic stiffness	NPD	
	Thickness, d_L	NPD	
	Compressibility, c	NPD	
Continuous burning as glowing	Continuous burning as glowing	NPD	
Release of hazardous substances to the environment	Release of hazardous substances [4)]	NPD	

[1)] NPD (No Performance Determined) [2)] Performance of EPS for fire does not deteriorate over time [3)] Thermal conductivity coefficient and thermal resistance do not change over time [4)] European test methods are in preparation

Tabela 2 Statement of thermal resistance as a function of thickness

Thickness, d_N [mm]	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Thermal resistance R_D [m² K/W]	0,25	0,55	0,80	1,10	1,35	1,65	1,90	2,20	2,50	2,75	3,05	3,30	3,60	3,85	4,15
Thickness, d_N [mm]	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
Thermal resistance R_D [m² K/W]	4,40	4,70	5,00	5,25	5,55	5,80	6,10	6,35	6,65	6,90	7,20	7,50	7,75	8,05	8,30

Performance of the above product conforms to the set of declared performance. This declaration of performance is issued in accordance with Regulation (EU) No. 305/2011 under the sole responsibility of the manufacturer, as above.

Signed on behalf of the manufacturer by:

WICEPREZES ZARZĄDU

mgr inż. [illegible]

(full name and position)

Chorzów, 30.12.2022 r.

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