

# DECLARATION OF PERFORMANCE

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No. 09/S037\_80DP

Edition 10

## 1. Unique identification code of product type:

EPS 80 037 ROOF FLOOR STANDARD

EPS EN 13163 T(1)-L(2)-W(2)-S<sub>b</sub>(5)-P(5)-BS125-CS(10)80-DS(N)2-DS(70,-)1

## 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):

- Building Research Institute (ITB) (Notified Body No. 1488)

## 6. Declared performance:

Table 1

Essential characteristics	Performance	Declared level/class/limit/NPD <sup>1)</sup>	Harmonized technical specification
Thermal resistance	Thermal resistance $R_D$ Thermal conductivity coefficient $\lambda_D$	See Table 2 0,037 [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 <sup>2)</sup>	E	
Stability of thermal resistance as a function of heat, atmospheric conditions, ageing/degradation	Thermal resistance $R_D$ <sup>3)</sup> Declared thermal conductivity coefficient $\lambda_D$ <sup>3)</sup>	See Table 2 0,037 [W/mK]	
	Stability of performance	DS(70,-)1	
Compression resistance	Compressive stress at 10% deformation	CS(10)80 (≥80 kPa)	
Tensile/bending strength	Bending strength	BS125 (≥125 kPa)	
	Tensile strength perpendicular to faces	NPD	

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Essential characteristics	Performance	Declared level/class/limit/NPD <sup>1)</sup>	Harmonized technical specification
Stability of compression strength as a function of ageing and degradation	Creep in compression	NPD	EN 13163: 2012+A1:2015
	Freeze-thaw resistance	NPD	
	Long-term reduction of thickness	NPD	
Water permeability	Water absorption under long-term immersion	NPD	
	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 <sup>4)</sup>	NPD	

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

**Table 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 $R_0$ [m <sup>2</sup> K/W]	0,25	0,50	0,80	1,05	1,35	1,60	1,85	2,15	2,40	2,70	2,95	3,20	3,50	3,75	4,05
Thickness, $d_N$ [mm]	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
Thermal resistance $R_0$ [m <sup>2</sup> K/W]	4,30	4,55	4,85	5,10	5,40	5,65	5,90	6,20	6,45	6,75	7,00	7,25	7,55	7,80	8,10

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 ZARZADU

*mgr inż. Marek Romański*

(full name and position)

Chorzów, 03.08.2020 r.