



## Declaration of performance

Nr 05/50/KA/2021

<b>1. Unique identification code of the product-type:</b>	KNAUF Therm EXPERT HYDRO EPS 100 $\lambda$ 36 d <sub>N</sub> 50 (TYP EPS 100) EN 13163:2012+A1:2015: EPS – EN 13163-T(1)-L(3)-W(3)-S(5)-P(5)-BS150-CS(10)100-DS(N)2- DS(70,-)1-WL(T)3,5
<b>2. Intended use or uses:</b>	Thermal insulation for buildings
<b>3. Name, registered trade name or registered trade mark and contact address of the manufacturer:</b>	Knauf Industries Polska Sp. z o.o. Adamowice ul. Styropianowa 1, 96-320 Mszczonów
<b>4. Name and contract address of the authorized representative</b>	Not relevant
<b>5. System or systems of assessment and verification of constancy of performance of the construction product</b>	System 3
<b>6a. Harmonized standard:</b>	EN 13163:2012+A1:2015.
<b>Notified testing facility:</b>	Polish Centre for Testing and Certification – Notification Number 1434
<b>6b. European Assessment Document</b>	Not relevant
<b>European Technical Assessment</b>	Not relevant
Technical assessment facility:	Not relevant
<b>Notified testing facility</b>	Not relevant

7. Declared performance:			
Essential Characteristics	Performance properties	Declared class/level/NDP <sup>a)</sup>	Harmonised technical specification
Thermal resistance	Thermal conductivity and resistance	$R_D - 1,40 \text{ m}^2\text{K/W}$ $\lambda_D - 0,036 \text{ W/mK}$	EN 13163:2012+A1:2015
	Thickness	$T(2)$ $d_N - 50 \text{ [mm]}$	
Reaction to fire	Reaction to fire	E	
Durability of reaction to fire - in function of heat, atmospheric conditions, aging/degradation	Properties Durability <sup>b)</sup>	E	
Durability of thermal resistance and thermal conductivity against aging/degradation	Thermal resistance and thermal conductivity <sup>c)</sup>	$R_D - 1,40 \text{ m}^2\text{K/W}$ $\lambda_D - 0,036 \text{ W/mK}$	
	Properties Durability	NPD	
Compressive strength	Compressive strength at 10% deformation CS (10) [kPa]	CS(10)100	
Tensile/Flexural strength	Bending strength BS [kPa]	BS 150	
	Tensile strength perpendicular to faces TR [kPa]	NPD	
Durability of compressive strength against aging and degradation	Compressive creep CC [%]	NPD	
	Freeze-thaw resistance [%]	NPD	
	Long-term thickness reduction [mm]	NPD	
Water permability	Water permeability WL(T)	WL(T)3,5	
	Water absorption WD(V)	NPD	
Vapor permability	Vapor permability [ $\mu$ ]	NPD	
Impact noise transmission index	Dynamic stiffness SD [ $\text{MN/m}^3$ ]	NPD	
	Thickness $d_L$ [mm]	NPD	
	Compressibility CP [mm]	NPD	
Continuous glowing combustion	Continuous glowing combustion <sup>d)</sup>	NPD	
Release of dangerous substances to the indoor environment	Release of dangerous substances to the indoor environment <sup>d)</sup>	NPD	

<sup>a)</sup> **NPD** - No Performance declare;  
<sup>b)</sup> No change in reaction to fire properties for EPS products;  
<sup>c)</sup> Thermal resistance and thermal conductivity of EPS products don't change with time;  
<sup>d)</sup> Europe research is ongoing;

## **8. Appropriate Technical Documentation or Specific Technical Documentation:**

Not applicable

**The performance of the product identified above is consistent with 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 identified above.**

Signed for and on behalf of the manufacturer:

(name:)

Paweł Zemlik

(place:)

Adamowice

(date:)

04.10.2021

(signature:)

