



## Declaration of performance

**KNAUF Therm EXPERT HYDRO EPS 100  $\lambda$  36 d<sub>N</sub> 80 (TYP EPS 100)**

**No 05/80/KA/2016.**

<b>1. Unique identification code of the product-type:</b>	KNAUF Therm EXPERT HYDRO EPS 100 $\lambda$ 36 d <sub>N</sub> 80 (TYP EPS 100) EPS –EN 13163-T(1)-L(2)-W(2)-S(2)-P(5)-BS150-CS(10)100-DS(N)2-DS(70,-)1-DLT(1)5-WL(T)2
<b>2. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specifications, as foreseen by the manufacturer:</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. Zakład: 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. Harmonised standard</b>	EN 13163:2012+A1:2015.
<b>Notified body:</b>	Instytut Techniki Budowlanej (Polish Building Institute) – No of notification 1488
<b>6b. European Assessment Document:</b>	Not relevant
<b>European Technical Assessment:</b>	Not relevant
<b>Technical Assessment Body:</b>	Not relevant
<b>Notified Body:</b>	Not relevant

## 7. Declared performance :

Essential characteristics	Performance	Declared class/level/NPD <sup>a)</sup>	Harmonised technical specification
Thermal resistance	Thermal conductivity and resistance	$R_D \geq 2,15 \text{ m}^2\text{K/W}$ $\lambda_D \leq 0,036 \text{ W/mK}$	EN 13163:2012+A1:2015
	Thickness [mm]	$T(1) (\pm 1 \text{ mm})$ $d_N - 80 \text{ [mm]}$	
Reaction to fire	Reaction to fire	E	
Durability of reaction to fire against heat, weathering, ageing /degradation	Durability characteristics <sup>b)</sup>	E	
Durability of thermal resistance and thermal conductivity against ageing/degradation	Thermal resistance and thermal conductivity <sup>c)</sup>	$R_D \geq 2,15 \text{ m}^2\text{K/W}$ $\lambda_D \leq 0,036 \text{ W/mK}$	
	Durability characteristics	NPD	
Compressive strength	Compressive stress at 10% deformation CS (10) [kPa]	CS(10)100 ( $\geq 100 \text{ kPa}$ )	
Tensile/Flexural strength	Bending strength BS [kPa]	BS 150 ( $\geq 150 \text{ kPa}$ )	
	Tensile strength perpendicular to faces TR [kPa]	NPD	
Durability of compressive strength against ageing and degradation	Compressive creep CC [%]	NPD	
	Freeze-thaw resistance [%]	NPD	
	Long-term thickness reduction [mm]	NPD	
Water permeability	Long term water absorption by immersion WL(T) Long term water absorption by diffusion WD(V)	$WL(T)2 (\leq 2 \%)$	
		NPD	
Water vapour permeability [ $\mu$ ]	Water vapour transmission [ $\mu$ ]	NPD	
Impact noise transmission index (for floors)	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 <sup>d)</sup>	NPD	

<sup>a)</sup> NPD – No Performance Determined ;

<sup>b)</sup> The fire performance of EPS does not deteriorate with time ;

<sup>c)</sup> Thermal conductivity of EPS Products does not change with time ;

<sup>d)</sup> European test methods are under development ;



Information concerning dangerous substances contained in the Substance Characteristics Sheet.

**8. Special technical documentation**

Not relevant

**The performances of the above identified products are in conformity with the set of declared performances. This declaration of performance is issued in accordance with the EU Construction Products Regulation no 305/2011 under the sole responsibility of the above identified manufacturer.**

Signed for and on behalf of the manufacturer by:

[Name and surname]

Wojciech Kossakowski

at [place]

Adamowice

Issued on [date of issue]

01.04.2016

[signature]

A handwritten signature in blue ink, appearing to read 'W. Kossakowski'.