



Declaration of performance

Nr 05/180/KA/2021

1. Unique identification code of the product-type:	KNAUF Therm EXPERT HYDRO EPS 100 λ 36 d _N 180 (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
2. Intended use or uses:	Thermal insulation for buildings
3. Name, registered trade name or registered trade mark and contact address of the manufacturer:	Knauf Industries Polska Sp. z o.o. Adamowice ul. Styropianowa 1, 96-320 Mszczonów
4. Name and contact address of the authorized representative	Not relevant
5. System or systems of assessment and verification of constancy of performance of the construction product	System 3
6a. Harmonized standard:	EN 13163:2012+A1:2015.
Notified testing facility:	Polish Centre for Testing and Certification – Notification Number 1434
6b. European Assessment Document	Not relevant
European Technical Assessment	Not relevant
Technical assessment facility:	Not relevant
Notified testing facility	Not relevant

7. Declared performance:			
Essential Characteristics	Performance properties	Declared class/level/NDP ^{a)}	Harmonised technical specification
Thermal resistance	Thermal conductivity and resistance	$R_D - 4,85 \text{ m}^2\text{K/W}$ $\lambda_D - 0,036 \text{ W/mK}$	EN 13163:2012+A1:2015
	Thickness	T(2) $d_N - 180 \text{ [mm]}$	
Reaction to fire	Reaction to fire	E	
Durability of reaction to fire - in function of heat, atmospheric conditions, aging/degradation	Properties Durability ^{b)}	E	
Durability of thermal resistance and thermal conductivity against aging/degradation	Thermal resistance and thermal conductivity ^{c)}	$R_D - 4,85 \text{ m}^2\text{K/W}$ $\lambda_D - 0,036 \text{ W/mK}$	
	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 [μ]	NPD	
Impact noise transmission index	Dynamic stiffness SD [MN/m^3]	NPD	
	Thickness d_L [mm]	NPD	
	Compressibility CP [mm]	NPD	
Continuous glowing combustion	Continuous glowing combustion ^{d)}	NPD	
Release of dangerous substances to the indoor environment	Release of dangerous substances to the indoor environment ^{d)}	NPD	

^{a)} **NPD** - No Performance declare;
^{b)} No change in reaction to fire properties for EPS products;
^{c)} Thermal resistance and thermal conductivity of EPS products don't change with time;
^{d)} 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:)

A handwritten signature in blue ink, consisting of a stylized 'P' and 'Z' enclosed within a circular scribble.