




## DECLARATION OF PERFORMANCE

**KNAUF Therm Pro Dach/Podłoga EPS 100 λ 36**

No.08/NWW/2014

<b>1. Unique identification code of the product-type:</b>	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 -TR150
<b>2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):</b>	EPS 100 Batch of part printed on polystyrene plates.
<b>3. 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. EN 13163:2012. Thermal insulation products for buildings – Factory made expanded polystyrene (EPS) products. Specification.
<b>4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5)</b>	KNAUF Therm Pro Dach/Podłoga EPS 100 λ 36  Producer Data: Knauf Industries Polska Sp. z o.o. Plant: 55-080 Nowa Wieś Wroclawska Administrative district: Katy Wroclawskie ul. Ryszarda Chomicza 3
<b>5. Where applicable, name and contract address of the authorized representative whose mandate covers the tasks specified in Article 12(2)</b>	Not relevant
<b>6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V</b>	System 3
<b>7. In case of the declaration of performance concerning a construction product covered by a harmonized standard</b>	Notified testing laboratory 1488 Building Research Institute Fasteners & Building Products Testing Laboratory ul. Filtrowa 1, 00-611 Warszawa ITT in system 3 and report number 0534/13/Z00NK
<b>8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued.</b>	Not relevant

<b>9. Declared performance:</b>			
Essential characteristics	Performance	Harmonised technical specification	
Reaction to fire	E	EN 13163:2012	
Water permeability WL(T) [%]	NPD		
Release of dangerous substances to the indoor environment	NPD		
Direct airborne sound insulation index	NPD		
Acoustic absorption index	NPD		
Impact noise transmission index	Dynamic stiffness SD [MN/m <sup>3</sup> ]		NPD
	Thickness d <sub>l</sub> [mm]		NPD
	Compressibility CP [mm]		NPD
Continuous glowing combustion	NPD		
Thermal resistance	Thermal conductivity and resistance		R <sub>D</sub> ≥ (see below) λ <sub>D</sub> ≤ 0,036 W/mK
	Thickness [mm]		T(1) (± 1 mm)
Water permeability [μ]	NPD		
Compressive strength	Compressive strength at 10% deformation CS (10) [kPa]		CS(10)100 (≥ 100 kPa)
	Deformation under specified compressive load and temperature conditions DLT [%]		DLT(1)5 (≤ 5 %)
Tensile/Flexural strength	Bending strength BS [kPa]		BS 150 (≥ 150 kPa)
	Tensile strength perpendicular to faces TR [kPa]		TR 150 (≥ 150 kPa)
Durability of reaction to fire against heat, weathering, aging /degradation	No change of performance		
Durability of thermal resistance and thermal conductivity against aging/degradation	Thermal resistance and thermal conductivity		No change of performance
	Dimension stability in constant normal laboratory conditions DS(N) [%]		DS(N)2 (±0,2%)
	Durability of performance		No change of performance
	Dimensional stability under specified temperature and humidity conditions [%]	DS(70,-)1 (≤1%)	
Durability of compressive strength against aging and degradation	Compressive creep CC [%]	NPD	
	Freeze-thaw resistance [%]	NPD	
	Long-term thickness [mm]	NPD	
<b>10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.</b>			
This declaration of performance is issued under sole responsibility of the manufacturer identified in point 4.			
<b>Signed for and on behalf of the manufacturer : Adam Hrybacz, Quality Manager</b>	 ..... (signature)		
..... 07.04.2014			

## Thermal resistance

Thickness [mm]:	$R_D$ [m <sup>2</sup> K/W]
10	0,28
20	0,55
30	0,8
40	1,1
50	1,35
60	1,65
70	1,9
80	2,2
90	2,5
100	2,75
110	3,05
120	3,3
130	3,6
140	3,85
150	4,15