



## Declaration of performance

Nr 18/270/KA/2020

|  |   |
|--|---|
| <b>1. Unique identification code of the product-type:</b>  | KNAUF Therm Expert Fasada $\lambda$ 32 d <sub>N</sub> 270<br>(TYP EPS S)<br>EPS -EN 13163-T(1)-L(2)-W(2)-S(5)-P(10)-BS75 -DS(N)2-DS(70,-)2-TR80 |
| <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.<br>Adamowice ul. Styropianowa 1,<br>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>  | Notified testing laboratory 1488<br>Building Research Institute   |
| <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                                     | $R_D - 8,15 \text{ m}^2\text{K/W}$<br>$\lambda_D - 0,032 \text{ W/mK}$ | EN<br>13163:2012+A1:2015           |
|  | Thickness   | $T(1)$<br>$d_N - 270 \text{ [mm]}$                                     |                                    |
| 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>               | $R_D - 8,15 \text{ m}^2\text{K/W}$<br>$\lambda_D - 0,032 \text{ W/mK}$ |                                    |
|  | Properties Durability   | NPD  |                                    |
| Compressive strength   | Compressive strength at 10% deformation CS (10) [kPa]                   | NPD  |                                    |
| Tensile/Flexural strength  | Bending strength BS [kPa]   | BS 75  |                                    |
|  | Tensile strength perpendicular to faces TR [kPa]                        | TR 80  |                                    |
| 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)  | NPD  |                                    |
|  | Water absorbtion WD(V)  | NPD  |                                    |
| Vapor permability  | Vapor permability [ $\mu$ ]   | 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  | 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> <b>NPD</b> - No Performance declare;<br><sup>b)</sup> No change in reaction to fire properties for EPS products;<br><sup>c)</sup> Thermal resistance and thermal conductivity of EPS products don't change with time;<br><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:)

06.07.2020

(signature:)

