



Declaration of performance

Nr 22/220/1/KA/2021

| | |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Unique identification code of the product-type: | KNAUF Therm EXPERT /Fasada/Dach/Podłoga λ 31 d _N 220 (TYP EPS 80) EPS -EN 13163-T(2)-L(2)-W(2)-S(5)-P(5)-BS 125-CS(10)80-DS(N)5- DS(70,-)1 -TR100 |
| 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 contract 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 | $R_D \geq 7,10 \text{ m}^2\text{K/W}$ $\lambda_D \leq 0,031 \text{ W/mK}$ | EN 13163:2012+A1:2015 |
| | Thickness | T(2) $d_N -220 \text{ [mm]}$ | |
| 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)} | $R_D \geq 7,10 \text{ m}^2\text{K/W}$ $\lambda_D \leq 0,031 \text{ W/mK}$ | |
| | Properties Durability | NPD | |
| Compressive strength | Compressive strength at 10% deformation CS (10) [kPa] | CS(10)80 | |
| Tensile/Flexural strength | Bending strength BS [kPa] | BS 125 | |
| | Tensile strength perpendicular to faces TR [kPa] | TR100 | |
| 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 [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 ongoi na;

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:)

