

**Declaration of Performance No: RWDOPBNL-999-003-02**

1. Unique identification code of the product-type: RockRoof Flexi
2. Type and serial number allowing identification of the product: see product label
3. Intended use of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer: Thermal insulation of buildings.
4. Name, registered trade name or trade mark and contact address of the manufacturer as required under article 11(5): DEUTSCHE ROCKWOOL Mineralwol GmbH & Co. OHG, Rockwool Strasse 37-41, 45966 Gladbeck, Deutschland
5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2): ROCKWOOL B.V., Industrieweg 15, 6045 JG Roermond (NL)
6. Systems of assessment and verification of constancy of performance of the construction as set out in CPR, Annex V: 1+3
7. Notified Certification body No. 0432 performed, carried out the determination of the product type, the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of constancy of performance for reaction to fire.  
Notified testing laboratories No. 0432 performed the test reports for the other relevant declared characteristics.
8. Declared Performance:

| Essential Characteristics   | Clauses in this and other European standard(s) related to essential characteristics | Harmonized standard EN 13162:2012+A1 2015   | Declared value / NPD                        |
|---|---|---|---|
| Reaction to fire  | 4.2.6 Reaction to fire  | Euroclasses   | A1  |
| Release of dangerous substances to the indoor environment                     | 4.3.13 Release of dangerous substances  | —   | European test method under construction     |
| Acoustic absorption index   | 4.3.11 Sound absorption   | Declared $\alpha_p$ and $\alpha_w$  | NPD   |
| Impact noise transmission index (for floors)                                  | 4.3.9 Dynamic stiffness   | Declared S [MN/m <sup>3</sup> ]   | NPD   |
|   | 4.3.10.2 Thickness, $d_L$   | Declared $d_L$ [mm] and Class   | NPD   |
|   | 4.3.10.4 Compressibility c  | Declared CP Level   | NPD   |
|   | 4.3.12 Air flow resistivity   | Direct airborne sound insulation index, Declared AF <sub>i</sub> [kPas/m <sup>2</sup> ] | NPD   |
| Direct airborne sound insulation index  | 4.3.12 Air flow resistivity   | Declared AF <sub>i</sub> [kPas/m <sup>2</sup> ]   | NPD   |
| Continuous glowing combustion   | 4.3.15 Continuous glowing combustion  | —   | European test method under construction     |
| Thermal resistance  | 4.2.1 Thermal resistance and thermal conductivity                                   | Declared R [m <sup>2</sup> K/W] and $\lambda$ [W/mK] if possible                        | See annex $\lambda_d$ : 0,037               |
|   | 4.2.2 Length and width  | Declared l and b  | Tolerance: l $\pm$ 2% / b $\pm$ 1.5%        |
|   | 4.2.3 Thickness   | Declared d or tolerance class   | Thickness: 60-100 mm<br>Tolerance class: T1 |
|   | 4.2.4 Squareness  | Declared S <sub>b</sub> [mm/m]  | n.a.  |
|   | 4.2.5 Flatness  | Declared S <sub>max</sub> [mm]  | n.a.  |
| Water permeability  | 4.3.7.1 Short term water absorption   | Declared W <sub>p</sub> [kg/m <sup>2</sup> ]  | NPD   |
|   | 4.3.7.2 Long term water absorption  | Declared W <sub>lp</sub> [kg/m <sup>2</sup> ]   | NPD   |
| Water vapour permeability   | 4.3.8 Water vapour transmission   | Declared $\mu$ or Z   | $\mu=1$                                     |
| Compressive strength  | 4.3.3 Compressive stress or compressive strength                                    | Declared CS [kPa]   | NPD   |
|   | 4.3.5 Point load  | Declared F <sub>p</sub> [N]   | NPD   |
| Durability of reaction to fire against heat, weathering, ageing/degradation   | 4.2.7 Durability characteristics <sup>a)</sup>                                      | <sup>b)</sup>   | <sup>a), b)</sup>                           |
| Durability of thermal resistance against heat, weathering, ageing/degradation | 4.2.1 Thermal resistance and thermal conductivity                                   | Declared R [m <sup>2</sup> K/W] and $\lambda$ [W/mK] if possible <sup>c)</sup>          | See annex $\lambda_d$ : 0,037               |
|   | 4.2.7 Durability characteristics  | <sup>d)</sup>   | NPD   |
| Tensile/Flexural strength   | 4.3.4 Tensile strength perpendicular to faces <sup>e)</sup>                         | Declared TR [kPa]   | NPD   |
| Durability of compressive strength against ageing/degradation                 | 4.3.6 Compressive creep   | Declared X <sub>ct</sub> and X <sub>t</sub>   | NPD   |

<sup>a)</sup>No change in reaction to fire properties for mineral wool products. <sup>b)</sup>The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time. <sup>c)</sup>Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air. <sup>d)</sup>For dimensional stability thickness only. <sup>e)</sup>This characteristic also covers handling and installation.

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by (digital signature):

W.J.E. Dumoulin  
Technical Director

Roermond, January 15<sup>th</sup> 2017



| Thickness (mm) | $R_d(m^2K/W)$ |
|----------------|---------------|
| 60             | 1.60          |
| 70             | 1.85          |
| 80             | 2.15          |
| 90             | 2.40          |
| 100            | 2.70          |