

|   |  |
|---|--|
| 1. Unique identification code of the product-type   | UK-WER-0107-04_english   |
| 2. Intended use of the construction product as foreseen by the manufacturer, in accordance with the applicable harmonised technical specification                     | Thermal insulation for building equipment and industrial installations                               |
| 3. Name, registered trade name or registered trade mark and contact address of the manufacturer, as required pursuant to Article 11(5) of regulation (EU) No 305/2011 | ROCKWOOL® Limited<br>Pencoed, Bridgend, CF35 6NY, UK   |
| 4. Applicable System or Systems of Assessment and Verification of Constancy of Performance (AVCP)   | SYSTEM 1 for uses subject to regulations on reaction to fire<br>SYSTEM 3 for all other intended uses |
| 5. Harmonised Standard reference number and date of issue   | BS EN 14303:2009 +A1:2013  |
| 6. Notified Body identification number  | 0751   |
| 7. Declared Performances  | Please refer to the table below<br>(NPD – No Performance Determined)                                 |

| Essential Characteristics                                   | Requirement clauses in this European Standard                           | Level and/or classes  | Declared value   |
|---|---|---|--|
| Reaction to fire<br>Euroclass characteristics               | 4.2.4 Reaction to fire  | Euroclasses   | $D_0 \leq 300\text{mm} = A2L-s1, d0$<br>$D_0 > 300\text{mm} = A2-s1, d0$ |
| Acoustic absorption index                                   | 4.3.8 Sound absorption  | Declared $\alpha_p$ and $\alpha_w$                                    | NPD  |
| Thermal resistance  | 4.2.1 Thermal conductivity  |   | See TABLE 1  |
|   | 4.2.2 Dimensions and tolerances   | Thickness tolerance class T   | $D_0 < 150\text{mm} = T8$<br>$D_0 \geq 150\text{mm} = T9$                |
| Water permeability  | 4.3.5 Water absorption  | Declared WS   | WS1  |
| Water vapour permeability                                   | 4.3.6 Water vapour diffusion resistance                                 | Declared MV   | MV2  |
| Compressive strength  | 4.3.4 Compressive stress or compressive strength for flat products      | Declared CS Level   | NPD  |
| Rate of release of corrosive substances                     | 4.3.7 Trace quantities of water soluble ions and the pH-value           | Levels of ion content   | NPD  |
|   |   | Levels of the pH-value  | NPD  |
| Release of dangerous substances to the indoor environment   | 4.3.9 Release of dangerous substances <sup>d)</sup>                     |   | <sup>d)</sup>  |
| Continuous glowing combustion                               | 4.3.10 Continuous glowing combustion <sup>e)</sup>                      |   | <sup>e)</sup>  |
| Durability of reaction to fire against ageing/degradation   | 4.2.5 Durability characteristics <sup>a)</sup>                          |   | <sup>a)</sup>  |
| Durability of thermal resistance against ageing/degradation | 4.2.1 Thermal conductivity <sup>b)</sup>                                | Declared $\lambda$  | <sup>b)</sup>  |
|   | 4.2.2 Dimensions and tolerances <sup>b)</sup>                           | Thickness tolerance class T   | <sup>b)</sup>  |
|   | 4.2.3 Dimensional stability <sup>b)</sup> , or                          | Declared $\Delta\epsilon_d$ , $\Delta\epsilon_l$ , $\Delta\epsilon_b$ | <sup>b)</sup>  |
|   | 4.3.2 Maximum service temperature – dimensional stability <sup>b)</sup> | Declared ST(+)  | <sup>b)</sup>  |
|   | 4.2.5 Durability characteristics <sup>b)</sup>                          |   | <sup>b)</sup>  |
| Durability of reaction to fire against high temperature     | 4.2.5 Durability characteristics <sup>c)</sup>                          |   | <sup>c)</sup>  |
| Durability of thermal resistance against high temperature   | 4.2.5 Durability characteristics <sup>b)</sup>                          |   | <sup>b)</sup>  |
|   | 4.3.2 Maximum service temperature – dimensional stability <sup>b)</sup> |   | ST(+)/250 (= 250°C)  |

<sup>a)</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>b)</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>c)</sup> The fire performance of mineral wool does not deteriorate with high temperature. The Euroclass classification of the product is related to the organic content, which remains constant or decreases with high temperature.

<sup>d)</sup> An informative database of European and national provisions on dangerous substances is available at the Construction web site on EUROPA (Accessed through [http://ec.europa.eu/growth/tools-databases/cp-ds\\_en](http://ec.europa.eu/growth/tools-databases/cp-ds_en)).

<sup>e)</sup> A European test method is under development and the standard will be amended when this is available.

TABLE 1

| To Suit Pipe<br>O.D. / mm | Insulation Thickness / mm |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|---------------------------|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
|                           | 20                        | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 90 | 100 |
| 017                       | 1                         | 1  | 1  | 1  | 1  | 1  |    |    |    |    |    |    |    |    |     |
| 021                       | 1                         | 1  | 1  | 1  | 1  | 1  | 1  | 1  |    |    |    |    |    |    |     |
| 027                       | 1                         | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 2  | 2  | 2  |    |    |    |     |
| 034                       | 1                         | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 2  | 2  |    |    |    |    |     |
| 042                       | 1                         | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 048                       | 1                         | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 054                       | 1                         | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 2  | 2  | 2  | 2  | 2  |    |     |
| 060                       | 1                         | 1  | 1  | 1  | 1  | 1  | 1  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 067                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 076                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 080                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 089                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 102                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 108                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 114                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 127                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |     |
| 133                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 140                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 150                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |    |    |    |    |     |
| 154                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |    |     |
| 159                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 169                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 178                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |    |    |    |    |     |
| 191                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |    |    |    |    |    |     |
| 194                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 205                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 219                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 230                       |                           |    |    |    | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 245                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 253                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 273                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 279                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 305                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 318                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 324                       |                           | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 356                       |                           |    | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 406                       |                           |    | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 456                       |                           |    |    |    | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 508                       |                           |    |    |    | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2   |
| 558                       |                           |    |    |    | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |     |
| 610                       |                           |    |    |    | 2  | 2  | 2  | 2  | 2  |    |    |    |    |    |     |

Curve 1

| 10 °C | 50 °C | 100 °C | 150 °C |
|-------|-------|--------|--------|
| 0.033 | 0.037 | 0.044  | 0.052  |
| W/mK  | W/mK  | W/mK   | W/mK   |

Curve 2

| 10 °C | 50 °C | 100 °C | 150 °C |
|-------|-------|--------|--------|
| 0.034 | 0.039 | 0.046  | 0.056  |
| W/mK  | W/mK  | W/mK   | W/mK   |

The performance of the product identified above is in conformity with the set of declared performances. 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 by:

Maxim Vasiliev  
Technical Director

At Bridgend on 26th October 2020