

## DECLARATION OF PERFORMANCE

No. 10120

|  |  |
|--|--|
| Unique identification code of the product-type | PAROC GRS 20   |
| Intended use/es                                | Thermal insulation for buildings                         |
| Manufacturer                                   | Paroc Group, Energiakuja 3, FI-00180 Helsinki            |
| System/s of AVCP                               | AVCP 1 for Reaction to fire, AVCP 3 for other properties |
| Harmonised standard                            | EN 13162:2012+A1:2015                                    |
| Notified body/ies                              | No. 0809 - Eurofins Expert Services Ltd                  |

The performance of the product identified above is in conformity with the set of declared performance/s. 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:  
Helsinki 29.6.2018



Paroc Oy Ab, Building Insulation  
Marjut Haapala, Product Certification Manager

### Declared Performance/s

| PROPERTY   | VALUE | ACCORDING TO                      |
|--|-------|-----------------------------------|
| <b>DIMENSIONAL STABILITY</b>   |       |                                   |
| Dimensional Stability at Specified Temperature, DS(70,-)             | ≤ 1 % | EN 13162:2012 + A1:2015 (EN 1604) |
| <b>DURABILITY OF COMPRESSIVE STRENGTH AGAINST AGEING/DEGRADATION</b> |       |                                   |
| Compressive Creep $CC(i1/i2/y)\sigma_c, X_{ct}$                      | NPD   | EN 13162:2012 + A1:2015 (EN 1606) |

| <b>DURABILITY OF FIRE AND THERMAL PROPERTIES</b>                              |   |
|---|---|
| Durability of Reaction to Fire Against Heat, Weathering, Ageing/Degradation   | The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of product is related to the organic content, which cannot increase with time.              |
| Durability of Thermal Resistance Against Heat, Weathering, Ageing/Degradation | 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. |

## Declared Performance/s

| PROPERTY   | VALUE                   | ACCORDING TO                                 |
|--|-------------------------|--|
| <b>REACTION TO FIRE</b>  |                         |  |
| Reaction to Fire, Euroclass                                      | A1                      | EN 13162:2012 + A1:2015+A1:2015 (EN 13501-1) |
| <b>CONTINUOUS GLOWING COMBUSTION</b>                             |                         |  |
| Continuous Glowing Combustion                                    | NPD                     | EN 13162:2012 + A1:2015                      |
| <b>THERMAL RESISTANCE</b>  |                         |  |
| Thermal Resistance   | See attachment          | EN 13162:2012 + A1:2015                      |
| Thermal Conductivity $\lambda_D$                                 | 0,035 W/mK              | EN 13162:2012 + A1:2015 (EN 13162)           |
| Thickness Tolerance, T   | T5                      | EN 13162:2012 + A1:2015 (EN 823)             |
| <b>DIRECT AIRBORNE SOUND INSULATION INDEX</b>                    |                         |  |
| Air Flow Resistivity $AF_R$                                      | NPD                     | EN 13162:2012 + A1:2015 (EN 29053)           |
| <b>WATER PERMEABILITY</b>  |                         |  |
| Water Absorption, Short Term $WS, W_p$                           | $\leq 1 \text{ kg/m}^2$ | EN 13162:2012 + A1:2015 (EN 1609)            |
| Water Absorption, Long Term $WL(P), W_{lp}$                      | $\leq 3 \text{ kg/m}^2$ | EN 13162:2012 + A1:2015 (EN 12087)           |
| <b>WATER VAPOUR PERMEABILITY</b>                                 |                         |  |
| Water Vapour Resistance Z  | NPD                     | EN 13162:2012+A1:2015                        |
| Water Vapour Transmission $MU, \mu$                              | 1                       | EN 13162:2012 + A1:2015 (EN 12086)           |
| <b>ACOUSTIC ABSORPTION INDEX</b>                                 |                         |  |
| Sound Absorption   | NPD                     | EN 13162:2012 + A1:2015 (EN ISO 354)         |
| <b>IMPACT NOISE TRANSMISSION INDEX (FOR FLOORS)</b>              |                         |  |
| Dynamic Stiffness SD   | NPD                     | EN 13162:2012 + A1:2015 (EN 29052-1)         |
| Compressibility  | NPD                     | EN 13162:2012 + A1:2015                      |
| <b>COMPRESSIVE STRENGTH</b>                                      |                         |  |
| Compressive Stress at 10 % deformation $CS(10), \sigma_{10}$     | 20 kPa                  | EN 13162:2012 + A1:2015 (EN 826)             |
| Compressive Strength $CS(Y), \sigma_m$                           | NPD                     | EN 13162:2012 + A1:2015 (EN 826)             |
| Point Load PL(5)   | 150 N                   | EN 13162:2012 + A1:2015 (EN 12340)           |
| <b>TENSILE/FLEXURAL STRENGTH</b>                                 |                         |  |
| Tensile Strength Perpendicular to Faces TR, $\sigma_{mt}$        | NPD                     | EN 13162:2012 + A1:2015                      |
| <b>RELEASE OF DANGEROUS SUBSTANCES TO THE INDOOR ENVIRONMENT</b> |                         |  |
| Release of Dangerous Substances                                  | NPD                     | EN 13162:2012 + A1:2015                      |