

## DECLARATION OF PERFORMANCE

No. 40342

|                                                |                                                          |
|------------------------------------------------|----------------------------------------------------------|
| Unique identification code of the product-type | PAROC Fire Steel Protect N1AluCoat                       |
| 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 14303:2009+A1:2013                                    |
| 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 Group Oy, Technical Insulation  
Saku Lipasti, Product Data and Project Manager

### Declared Performance/s

| PROPERTY                                                             | VALUE | ACCORDING TO                      |
|----------------------------------------------------------------------|-------|-----------------------------------|
| <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 Ageing/Degradation   | No change in reaction to fire properties for mineral wool products. 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. |
| Durability of Reaction to Fire Against High Temperature     | 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.                               |
| Durability of Thermal Resistance Against 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 (EN 13501-1) |
| <b>CONTINUOUS GLOWING COMBUSTION</b>                             |                            |                                      |
| Continuous Glowing Combustion                                    | NPD                        | EN 13162:2012 + A1:2015              |
| <b>THERMAL RESISTANCE</b>                                        |                            |                                      |
| Thermal Conductivity $\lambda_D$                                 | 0,038 W/mK                 | EN 13162:2012 + A1:2015              |
| <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                                        | 6,00 m <sup>2</sup> hPa/mg | EN 13162:2012+A1:2015                |
| Water Vapour Transmission MU, $\mu$                              | NPD                        | EN 13162:2012 + A1:2015              |
| <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) |
| <b>COMPRESSIVE STRENGTH</b>                                      |                            |                                      |
| Compressive Stress at 10 % deformation CS(10), $\sigma_{10}$     | NPD                        | EN 13162:2012 + A1:2015 (EN 826)     |
| Compressive Strength CS(Y), $\sigma_m$                           | NPD                        | EN 13162:2012 + A1:2015 (EN 826)     |
| <b>TENSILE/FLEXURAL STRENGTH</b>                                 |                            |                                      |
| Tensile Strength Perpendicular to Faces TR, $\sigma_{mt}$        | NPD                        | EN 13162:2012 + A1:2015 (EN 1607)    |
| <b>RELEASE OF DANGEROUS SUBSTANCES TO THE INDOOR ENVIRONMENT</b> |                            |                                      |
| Release of Dangerous Substances                                  | NPD                        | EN 13162:2012 + A1:2015              |