

**DECLARATION OF PERFORMANCE**

**DECLARATION OF PERFORMANCE NO.**

PTRL-DoP/MW/23/140

**UNIQUE IDENTIFICATION CODE OF THE PRODUCT TYPE**

PETRAROOF PLUS MW-EN13162-T5-CS(10)50-TR10-PL(5)550-WS-MU1-AW0,95

**INTENDED USE OR USES**

Factory made mineral wool (MW) products for thermal insulation of buildings.

**PRODUCER**

Head Office

**Name:** PETRALANA S.A.

**Address:** Str. Konstytucji 74  
41-905 BYTOM, Poland

**SYSTEM OF ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE**

System 1 and System 3

**HARMONIZED STANDARD**

EN 13162:2012+A1:2015

**NOTIFIED CERTIFICATION BODY OR BODIES**

Sieć Badawcza Łukasiewicz – Warszawski Instytut Technologiczny nr 1454

## DECLARATION OF PERFORMANCE

| DECLARED CHARACTERISTICS  |   |   |                               |                      |
|---|---|---|-------------------------------|----------------------|
| ESSENTIAL CHARACTERISTICS   | REQUIREMENT CLAUSES IN THIS EUROPEAN STANDARD     | SYMBOL                                    | DECLARED LEVEL AND/OR CLASSES | UNIT                 |
| Reaction to fire  | Reaction to fire                                  | RtF                                       | A1                            | Euroclass            |
| Release of dangerous substances to the indoor environment                     | Release of dangerous substances                   | -   | NPD                           | -                    |
| Acoustic absorption index for floors  | Sound absorption                                  | $\alpha_{PI}$ (API) i $\alpha_{WI}$ (AWI) | 0,95                          | -                    |
| Impact noise transmission index (for floors)                                  | Dynamic stiffness                                 | $s'_{SD}$                                 | NPD                           | MN/m <sup>2</sup>    |
|   | Thickness, dL                                     | dL  | 151-190                       | mm                   |
|   | Compressibility, c                                | CP  | NPD                           | mm                   |
|   | Air flow resistivity                              | AFr                                       | NPD                           | kPa·s/m <sup>2</sup> |
| Direct airborne sound insulation index  | Air flow resistivity                              | AFr                                       | NPD                           | kPa·s/m <sup>2</sup> |
| Continuous glowing combustion   | Continuous glowing combustion                     | -   | NPD                           | -                    |
| Thermal resistance  | Thermal resistance and thermal conductivity       | R   | Table-Thermal Resistance      | m <sup>2</sup> K/W   |
|   |   | $\lambda$                                 | 0,037                         | W/(mK)               |
|   | Thickness   | d   | 151-190                       | mm                   |
| Water permeability  | Short time water absorption                       | WS  | <1                            | kg/m <sup>2</sup>    |
|   | Long time water absorption                        | WL(P)                                     | NPD                           | kg/m <sup>2</sup>    |
| Water vapour permeability   | Water vapour transmission                         | MU  | MU1                           | -                    |
| Compressive strength  | Compressive stress or compressive strength        | CS(10)                                    | 50                            | kPa                  |
|   | Point load  | PL  | 550                           | N                    |
| Durability of reaction to fire against heat, weathering, ageing/degradation   | Durability characteristics                        | Reaction to fire                          | A1                            | Euroclass            |
| Durability of thermal resistance against heat, weathering, ageing/degradation | Thermal resistance and thermal conductivity       | R   | Table-Thermal Resistance      | m <sup>2</sup> K/W   |
|   |   | Declared $\lambda$                        | 0,037                         | W/(mK)               |
|   | Dimensional stability under specified temperature | DS(70,90)                                 | NPD                           | %                    |
| Dimensional stability under specified temperature and humidity conditions     | NPD   |   | %                             |                      |
| Tensile/Flexural strength   | Tensile strength perpendicular to faces           | TR  | 10                            | kPa                  |
| Durability of compressive strength against ageing/degradation                 | Compressive creep                                 | CC(1/12/y) $\delta_c$                     | NPD                           | mm                   |

| THERMAL RESISTANCE R <sub>D</sub>  |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|------|------|------|------|------|---|---|---|---|---|---|---|---|---|---|
| d [mm]                             | 151  | 160  | 170  | 180  | 190  | - | - | - | - | - | - | - | - | - | - |
| R <sub>D</sub> [m <sup>2</sup> KW] | 4,05 | 4,30 | 4,55 | 4,85 | 5,10 | - | - | - | - | - | - | - | - | - | - |

The performance of the product identified above is in conformity with the declared performance. This declaration of performance is issued with respect to Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer identified above.

| QUALITY DEPARTMENT AND CERTIFICATION MANAGER                                      |                         |
|---|-------------------------|
| Place: <u>Bytom</u>   | Date: <u>29/04/2024</u> |
| KIEROWNIK<br>DZIAŁU KONTROLI JAKOŚCI<br><u>mgr inż. Dawid Gołuch</u><br>Signature |                         |