

**DECLARATION OF PERFORMANCE**

**DECLARATION OF PERFORMANCE NO.**

PTRL-DoP/MW/15/37

**UNIQUE IDENTIFICATION CODE OF THE PRODUCT TYPE**

PETRALAMELA-F MW-EN13162-T5-DS(70,90)-CS(10)20-TR20-WS-WL(P)-MU1

**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) | NPD                           | -                    |
| Impact noise transmission index (for floors)                                  | Dynamic stiffness   | s' SD                                     | NPD                           | MN/m <sup>3</sup>    |
|   | Thickness, dL   | dL  | 30-99                         | 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   | 30-99                         | mm                   |
|   |   | Class for thickness tolerances            | T5                            | mm                   |
| Water permeability  | Short time water absorption   | WS  | <1                            | kg/m <sup>2</sup>    |
|   | Long time water absorption  | WL(P)                                     | <3                            | kg/m <sup>2</sup>    |
| Water vapour permeability   | Water vapour transmission   | MU  | MU1                           | -                    |
| Compressive strength  | Compressive stress or compressive strength                                | CS(10)                                    | 20                            | kPa                  |
|   | Point load  | PL  | NPD                           | 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)                                 | <1                            | %                    |
|   | Dimensional stability under specified temperature and humidity conditions |   | <1                            | %                    |
| Tensile/Flexural strength   | Tensile strength perpendicular to faces                                   | TR  | 20                            | kPa                  |
| Durability of compressive strength against ageing/degradation                 | Compressive creep   | CC(1/12/y)6c                              | NPD                           | mm                   |

### THERMAL RESISTANCE R<sub>D</sub>

|                                     |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |
|-------------------------------------|------|------|------|------|------|------|------|------|---|---|---|---|---|---|---|---|
| d [mm]                              | 30   | 40   | 50   | 60   | 70   | 80   | 90   | 99   | - | - | - | - | - | - | - | - |
| R <sub>D</sub> [m <sup>2</sup> K/W] | 0,80 | 1,05 | 1,35 | 1,60 | 1,85 | 2,15 | 2,40 | 2,65 | - | - | - | - | - | - | - | - |

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>Dawid Gołuch</u><br>mgr inż. Dawid Gołuch<br>Signature |
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