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## DECLARATION OF PERFORMANCES - DOP Nº 3 – MA 230

- 1. Unique identification code of the product-type:**  
MA 230
- 2. Type, batch or serial number or any other element allowing identification of the construction product, as required pursuant to Article 11(4):**  
MA 230 (see product label).
- 3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:**  
*Stone mineral wool (MW) insulation product, as a roll faced with aluminium foil, for diverse applications in civil construction.*
- 4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):**  
TERMOLAN – ISOLAMENTOS TERMO-ACÚSTICOS, S.A.  
Av. de Poldrães, nº10 – Apartado 11  
4795-006 Vila das Aves – Portugal
- 5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):**  
Not applicable.
- 6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:**  
AVCP system 1 for reaction to fire.  
AVCP system 3 for other characteristics.
- 7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:**  
The RISE – Research Institutes of Sweden (laboratory of the notified body nº: 0402) determined the product-type on the basis of the initial type testing (ITT), including sampling, an initial inspection of the manufacturing plant and factory production control, monitoring, assessment and approval of factory production control, under systems 1 and 3, and issued the corresponding conformity certificate.
- 8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:**  
Not applicable.

**9. Declared performance:**

## Harmonised technical specification EN 13162:2012+A1:2015

| Essential characteristics   |   | Performance |
|---|---|-------------|
| Reaction to fire - Euroclass characteristics                                  | Reaction to fire                                  | A1          |
| Release of dangerous substances to the indoor environment                     | Release of dangerous substances                   | <b>a)</b>   |
| Acoustic absorption index   | Acoustic absorption                               | NPD         |
| Impact noise transmission index (for floors)                                  | Dynamic stiffness                                 | NPD         |
|   | Thickness, $d_L$                                  | NPD         |
|   | Compressibility                                   | NPD         |
|   | Air flow resistivity                              | NPD         |
| Direct airborne sound insulation index  | Air flow resistivity                              | NPD         |
| Continuous glowing combustion   | Continuous glowing combustion                     | <b>b)</b>   |
| Thermal resistance  | Thermal resistance                                | <b>c)</b>   |
|   | Thermal conductivity (W/m.K)                      | 0,037       |
|   | Thickness   | T1          |
| Water permeability  | Water absorption (short term)                     | WS          |
| Water vapour permeability   | Water vapour transmission                         | NPD         |
| Compressive strength  | Compressive stress or compressive strength        | NPD         |
|   | Point load  | NPD         |
| Durability of reaction to fire against heat, weathering, ageing/degradation   | Durability characteristics <b>d)</b>              | <b>e)</b>   |
| Durability of thermal resistance against heat, weathering, ageing/degradation | Thermal resistance and thermal conductivity       | <b>f)</b>   |
|   | Durability characteristics                        | <b>g)</b>   |
| Tensile/Flexural strength   | Tensile strength perpendicular to faces <b>h)</b> | NPD         |
| Durability of compressive strength against ageing/degradation                 | Compressive creep                                 | NPD         |

- a) Thermal insulation products should not surpass the maximum admissible levels foreseen in the European and National specifications of dangerous substances. Awaiting full definition of the mentioned developing specifications;
- b) Awaiting full definition of developing European technical specifications;
- c) Declared thermal resistance:

| Thickness (mm)                           | 60   | 80   | 100  |
|--|------|------|------|
| Thermal resistance (m <sup>2</sup> .K/W) | 1,60 | 2,15 | 2,70 |

- d) No change in reaction to fire properties for mineral wool products.
- e) 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.
- f) 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.
- g) For dimensional stability thickness only.
- h) This characteristic also covers handling and installation.



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DOP – DECLARATION OF PERFORMANCES  
In accordance with Regulation (EU) 305/2011 of March 9th

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**10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.**

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer and electronically by:

**General Manager**

Vila das Aves, February, 18, 2021.

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**TERMOLAN**  
ISOLAMENTOS TERMO-ACÚSTICOS, S.A.