

# Declaration of Performance



## DoP Number:

GR-2150-005

1 Unique identification code of the product-type:

FIBRANgeo R-050-XA

2 Identification of the construction product as required under Article 11(4) of the regulation n° 305/2011/EU:

MW-EN 13162-T4-WS-WL(P)

3 Intended use/es:

Thermal Insulation of Building

4 Manufacturer:

FIBRAN S.A., Terpní, 62200, Serres, Greece

5 Systems/s of AVCP:

AVCP - System 1 - System 3

6 Harmonised standard:

EN 13162:2012+A1:2015

Notified bodies:

Notified Certification bodies FIW (Forschungsinstitut für Wärmeschutz e.v München) N° 0751 and MPA (Materialprüfanstalt für das Bauwesen Hannover) N° 0764 performed, carried out the determination of the product type, the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of constancy of performance for reaction to fire.

7 Declared performance:

| Essential characteristics   | Performance                             | Abbreviation   | Unit                  | Declared performance |
|---|---|--|-----------------------|----------------------|
| Reaction to fire  | Reaction to fire                        | RtF  | Euroclass             | F                    |
| Release of dangerous substances   | Release of dangerous substances         |  |                       | NPD                  |
| Acoustic absorption index   | Sound absorption                        | AW   | -                     | NPD                  |
|   | Dynamic stiffness                       | SD   | MN/m <sup>3</sup>     | NPD                  |
|   | Thickness                               | d <sub>L</sub>                                       | mm                    | NPD                  |
|   | Compressibility                         | CP   | mm                    | NPD                  |
|   | Air flow resistivity                    | AFr  | kPa.s/m <sup>2</sup>  | NPD                  |
| Direct airborne sound insulation index  | Air flow resistivity                    | AFr  | kPa.s/m <sup>2</sup>  | NPD                  |
| Continuous glowing combustion   | Continuous glowing combustion           |  |                       | NPD                  |
|   | Thermal resistance                      | R <sub>D</sub>                                       | m <sup>2</sup> K/W    | see table below      |
|   | Thermal conductivity                    | λ <sub>D</sub>                                       | W/m K                 | 0,035                |
|   | Thickness                               | d <sub>N</sub>                                       | mm                    | 30-80                |
|   | Thickness class                         | T  | Class                 | T4                   |
|   | Short term water absorption             | WS   | kg/m <sup>2</sup>     | <1                   |
|   | Long term water absorption              | WL(P)  | kg/m <sup>2</sup>     | <3                   |
|   | Water vapour transmission               | MU   | -                     | NPD                  |
|   |   | Z  | m <sup>2</sup> hPa/mg | >0,5                 |
|   | Compressive stress                      | CS(10)   | kPa                   | NPD                  |
|   | Point Load                              | PL(5)  | N                     | NPD                  |
| Durability of reaction to fire against heat, weathering, ageing/degradation     | Reaction to fire                        | RtF  | Euroclass             | F                    |
|   | Thermal resistance                      | R <sub>D</sub>                                       |                       | see table below      |
|   | Thermal conductivity                    | λ <sub>D</sub>                                       | W/m K                 | 0,035                |
|   | Durability characteristics              | DS (70,90)   | %                     | NPD                  |
| Tensile/Flexural strength   | Tensile strength perpendicular to faces | TR   | kPa                   | NPD                  |
| Durability of compressive strength against heat, weathering, ageing/degradation | Compressive creep                       | CC(l <sub>1</sub> /l <sub>2</sub> /y) σ <sub>c</sub> | mm                    | NPD                  |

NPD: No Performance Determined

|                    |                                     |      |      |      |      |      |      |
|--------------------|-------------------------------------|------|------|------|------|------|------|
| Thickness          | d <sub>N</sub> (mm)                 | 30   | 40   | 50   | 60   | 70   | 80   |
| Thermal resistance | R <sub>D</sub> (m <sup>2</sup> K/W) | 0,85 | 1,10 | 1,40 | 1,70 | 2,00 | 2,25 |

8 Suitable technical justification and/or specific technical justification:

The performance of the product identified above is in conformity with the declared values. The declaration of these values is issued, according to EU Regulation 305/2011, under the sole responsibility of the manufacturer.

Name:

Dr. Chadiarakou Stella

Function:

Quality Assurance Manager

Place:

Thessaloniki

Date:

18/4/2022

Signature: