## **Declaration of Performance**





DoP Number: GR-2031-004

1 Unique identification code of the product-type:  $2\ \ Identification\ of\ the\ construction\ product\ as\ required\ under\ Article\ 11(4)\ of\ the\ regulation\ n^\circ\ 305/2011/EU:$  MW-EN 13162-T4-WS-WL(P)-MU1-AW1-AFr50

FIBRANgeo B-080

3 Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

Thermal Insulation of Building (ThIB) FIBRAN S.A., Terpni, 62200, Serres, Greece

 $4\ Name, registered\ trade\ name\ or\ registered\ trade\ mark\ and\ contact\ address\ of\ the\ manufacturer\ as\ required\ under\ Article\ 11(5)\ of\ the\ regulation\ n^{\circ}$ 305/2011/EU:

Not applicable

 $5\ \ Name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) of the regulation <math>n^{\circ}$ 305/2011/EU:  $6\ \ System\ or\ systems\ of\ assessment\ and\ verification\ of\ constancy\ of\ performance\ of\ the\ construction\ product\ as\ set\ out\ in\ Annex\ V\ of\ the\ Regulation\ n^{\circ}$ 

AVCP - System 1 - System 3

305/2011/EU: 7 Notified Certification bodies FIW (Forschunginstitut für Wärmeschutz e.v München) N° 0751 and MPA (Materialprüfanstalt fün das Bauwesen  $Hannover) \ N^{\circ} \ O764 \ performed, carried out the determination of the product type, the initial inspection of the manufacturing plant and of factory and the product type in the initial inspection of the manufacturing plant and of factory and the product type in the initial inspection of the manufacturing plant and of factory and the product type in the initial inspection of the manufacturing plant and of factory and the product type in the initial inspection of the manufacturing plant and of factory and the product type in the initial inspection of the manufacturing plant and of factory and the product type in the initial inspection of the manufacturing plant and of factory and the product type in the product$  $production\ control\ and\ the\ continuous\ surveillance,\ assessment\ and\ evaluation\ of\ factory\ production\ control\ and\ issued\ the\ certificate\ of\ constancy\ of\ factory\ production\ control\ and\ issued\ the\ certificate\ of\ constancy\ of\ factory\ production\ control\ and\ issued\ the\ certificate\ of\ constancy\ of\ factory\ production\ control\ and\ issued\ the\ certificate\ of\ constancy\ of\ factory\ production\ control\ and\ issued\ the\ certificate\ of\ constancy\ of\ factory\ production\ control\ and\ issued\ the\ certificate\ of\ constancy\ of\ factory\ production\ control\ and\ issued\ the\ certificate\ of\ constancy\ of\ factory\ production\ control\ and\ issued\ the\ certificate\ of\ constancy\ of\ factory\ production\ control\ and\ issued\ the\ certificate\ of\ constancy\ of\ constancy\ of\ certificate\ of\ constancy\ of\ certificate\ of\ constancy\ of\ certificate\ of$ performance for reaction to fire.

0751-CPR-223.0-01

## 8 Declared performance according to harmonized standard:

EN 13162:2012+A1:2015

$\begin{tabular}{ l l l l l l l l l l l l l l l l l l l$	Essential characteristics	Performance	Abbreviation	Unit	Declared performance	
Acoustic absorption index    Domain stiffness   SD   MN/m³   NPD	Reaction to fire	Reaction to fire	RtF	Euroclass	A1	
Dynamic stiffness   SD   MN/m³   NPD	Realease of dangerous substances	Realease of dangerous substances			NPD	
Impact noise transmission index    Thickness	Acoustic absorption index	Sound absorption	AW	=	NPD	
Impact noise transmission index    Compressibility		Dynamic stiffness	SD	MN/m³	NPD	
Air flow resistivity  AFr  RPa.s/m²  50  Direct airborne sound insulation index  Air flow resistivity  AFr  RPa.s/m²  50  Continous glowing combustion  Continous glowing combustion  Thermal resistance  Thermal conductivity  Thermal conductivity  Thermal conductivity  Thickness  Thickness class  Thickness class  Thickness class  Thermal conductivity  Thickness class  Thermal conductivity  Thickness class  Thermal conductivity  Thickness class  Thermal conductivity  Thermal resistance against heat, weathering, against fleat,		Thickness	d <sub>L</sub>	mm	NPD	
Direct airborne sound insulation index  Air flow resistivity  Afr  AFr  APa.s/m²  50  Continous glowing combustion  Continous glowing combustion  Thermal resistance  Thermal resistance  Thermal resistance  Thermal conductivity  Apo  W/m K  0.033  Thickness  Thermal conductivity  Apo  W/m K  0.033  Thickness class  T Class  T4  Short term water absorption  Ws kg/m²  Class  T4  Agrant Palage  Water vapour permeability  Water vapour transmission  Water vapour permeability  Water vapour transmission  Compressive strength  Compressive stress  CS(10)  Apa  When  Arr  KPa.s/m²  See below table  Thermal conductivity  Agrant  An  Durability of reaction to fire against heat, weathering, ageing/degradation  Thermal resistance  Thermal resistance  Thermal resistance  Thermal resistance  Thermal conductivity  Apo  W/m K  0.033  Al  Thermal resistance  Thermal conductivity  Apo  W/m K  0.033  Al  Thermal resistance  Thermal conductivity  Apo  W/m K  0.033  App.  Durability of thermal resistance against heat, weathering, ageing/degradation  Thermal conductivity  Apo  W/m K  0.033  App.  Durability of compressive strength against heat, weathering, ageing/degradation  Thermal conductivity  Apo  W/m K  0.033  App.  NPD  Durability of compressive strength against heat, weathering, Compressive streage  Compressive s	Impact noise transmission index	Compressibility	СР	mm	NPD	
Continous glowing combustion  Continous glowing combustion  Thermal resistance  Thermal resistance  Thermal conductivity  Thermal conductivity  Thermal conductivity  Thickness		Air flow resistivity	AFr	kPa.s/m²	50	
Thermal resistance $R_0$ $m^2 K/W$ see below table $M_0$ $M/m K$ $M_0$ $M_0$ $M/m K$ $M_0$ $M$	Direct airborne sound insulation index	Air flow resistivity	AFr	kPa.s/m²	50	
Thermal resistance	Continous glowing combustion	Continous glowing combustion			NPD	
Thickness		Thermal resistance	R <sub>D</sub>	m² K/W	see below table	
$\frac{\text{Thickness}}{\text{Thickness class}} \qquad \frac{\text{d}_{\text{N}}}{\text{Thickness class}} \qquad \frac{\text{T}}{\text{Class}} \qquad \frac{14}{\text{Class}}$ $\text{Water permeability} \qquad \frac{\text{Short term water absorption}}{\text{Long term water absorption}} \qquad \frac{\text{WL(P)}}{\text{VS}} \qquad \frac{\text{kg/m}^2}{\text{kg/m}^2} \qquad < \frac{1}{\text{Class}}$ $\frac{\text{Vater vapour permeability}}{\text{Ung term water absorption}} \qquad \frac{\text{MU}}{\text{V}} \qquad \frac{-}{\text{Compressive strength}} \qquad \frac{1}{\text{V}} \qquad \frac{\text{Vater vapour transmission}}{\text{VS}} \qquad \frac{\text{MU}}{\text{V}} \qquad \frac{-}{\text{V}} \qquad \frac{1}{\text{MPD}} \qquad \frac{1}{\text{NPD}} \qquad \frac{\text{NPD}}{\text{NPD}}}{\text{NPD}}$ $\frac{\text{Compressive strength}}{\text{Compressive strength}} \qquad \frac{\text{Compressive stress}}{\text{Point Load}} \qquad \frac{\text{CS(10)}}{\text{PL(5)}} \qquad \frac{\text{kPa}}{\text{N}} \qquad \frac{\text{NPD}}{\text{NPD}}$ $\frac{\text{Purability of reaction to fire against heat, weathering, ageing/degradation}}{\text{Purability of thermal resistance against heat, weathering, ageing/degradation}} \qquad \frac{\text{Thermal resistance}}{\text{Thermal conductivity}} \qquad \frac{\text{Rp}_0}{\text{Np}_0} \qquad \frac{\text{m}^2 \text{K/W}}{\text{NPD}} \qquad \frac{\text{See below table thermal possibility characteristics}}{\text{NPD}} \qquad \frac{\text{NPD}}{\text{NPD}}$ $\frac{\text{Tensile/Flexural strength}}{\text{Purability of compressive strength against heat, weathering,}} \qquad \frac{\text{CC(Id, Id, N) G}}{\text{Compressive strength against heat, weathering,}} \qquad \frac{\text{CC(Id, Id, N) G}}{\text{Compressive strength against heat, weathering,}}{\text{Compressive strength perpendicular to faces}} \qquad \frac{\text{CC(Id, Id, N) G}}{\text{CC(Id, Id, N) G}} \qquad \frac{\text{mm}}{\text{NPD}} \qquad \frac{\text{NPD}}{\text{NPD}}$	The contract of the contract o	Thermal conductivity	$\lambda_{D}$	W/m K	0,033	
Short term water absorption       WS       kg/m²          Water vapour permeability       Water vapour transmission       MU       -       1         Compressive strength       Z       m2hPa/mg       NPD         Compressive stress       CS(10)       kPa       NPD         Durability of reaction to fire against heat, weathering, ageing/degradation       Reaction to fire       RtF       Euroclass       A1         Durability of thermal resistance against heat, weathering, ageing/degradation       Thermal resistance       R <sub>D</sub> m² K/W       see below table thermal conductivity         Durability characteristics       DS (70,90)       %       NPD         Tensile/Flexural strength       Tensile strength perpendicular to faces       TR       kPa       NPD         Durability of compressive strength against heat, weathering,       Compressive resea       CC(1,1/4) / T       mm       NPD	Thermal resistance	Thickness	d <sub>N</sub>	mm	20-300	
Water permeability  Long term water absorption  WL(P)  MU		Thickness class		Class	T4	
Long term water absorption   WL(P)   kg/m²   <3		Short term water absorption	WS	kg/m²	<1	
Water vapour permeability       Water vapour transmission       Z       m2hPa/mg       NPD         Compressive strength       Compressive stress       CS(10)       kPa       NPD         Durability of reaction to fire against heat, weathering, ageing/degradation       Reaction to fire       RtF       Euroclass       A1         Thermal resistance against heat, weathering, ageing/degradation       Thermal resistance       R <sub>D</sub> m² K/W       see below table thermal resistance         Thermal conductivity       λ <sub>D</sub> W/m K       0,033         Durability of the conductivity       DS (70,90)       %       NPD         Tensile/Flexural strength       Tensile strength perpendicular to faces       TR       kPa       NPD         Durability of compressive strength against heat, weathering,       Compressive strength       CC(1/1-k) of g       mm       NPD	Water permeability	Long term water absorption	WL(P)	kg/m²	<3	
Compressive strength  Compressive stress  CS(10)  kPa  NPD  NPD  Point Load  Point Load  PL(5)  N  NPD  Durability of reaction to fire against heat, weathering, ageing/degradation  Purability of thermal resistance against heat, weathering, ageing/degradation  Thermal resistance  Reaction to fire  RtF  Euroclass  A1  Thermal resistance  Rp  m² K/W  see below table  Thermal conductivity  \[ \lambda_D \]  Durability of compressive strength  Tensile/Flexural strength  Tensile strength perpendicular to faces  TR  kPa  NPD  NPD  NPD	Water and a second a second and	Matana	MU	-	1	
Compressive strength       Point Load       PL(5)       N       NPD         Durability of reaction to fire against heat, weathering, ageing/degradation       Reaction to fire       RtF       Euroclass       A1         Durability of thermal resistance against heat, weathering, ageing/degradation       Thermal resistance       R <sub>D</sub> m² K/W       see below table thermal conductivity       λ <sub>D</sub> W/m K       0,033         Durability of compressive strength       Tensile strength perpendicular to faces       TR       kPa       NPD         Durability of compressive strength against heat, weathering,       Compressive creen       CC(Link) of g       mm       NPD	water vapour permeability	water vapour transmission	Z	m2hPa/mg	NPD	
Point Load PL(5) N NPD  Durability of reaction to fire against heat, weathering, ageing/degradation  Reaction to fire RtF Euroclass A1  Thermal resistance R <sub>D</sub> m² K/W see below tabl Thermal conductivity $\lambda_D$ W/m K 0,033 ageing/degradation  Tensile/Flexural strength Tensile strength perpendicular to faces TR kPa NPD  Durability of compressive strength against heat, weathering, Compressive strength $\lambda_D$ Compressive strength $\lambda_D$ NPD	Compressive strongth	Compressive stress	CS(10)	kPa	NPD	
ageing/degradation  Reaction to fire  REF  Euroclass  A1  Durability of thermal resistance against heat, weathering, ageing/degradation  Thermal resistance  Thermal resistance  Thermal conductivity $\lambda_D$ Durability of acceptable the perpendicular to faces  TR  REF  Euroclass  A1  Thermal resistance  RD  W/m K  0,033  NPD  Tensile/Flexural strength  Tensile strength perpendicular to faces  TR  REF  Euroclass  A1  NPD  Compressive creen  Collidation  Thermal resistance  RD  W/m K  0,033  NPD  Tensile/Flexural strength  Tensile strength perpendicular to faces  TR  REF  Euroclass  A1  Collidation  See below table  Thermal conductivity $\lambda_D$ W/m K  0,033  NPD  Tensile/Flexural strength  Tensile strength perpendicular to faces  TR  RPD  NPD	Compressive strength	Point Load	PL(5)	N	NPD	
Durability of thermal resistance against heat, weathering, ageing/degradation  Thermal conductivity $\lambda_D$ $\lambda_D$ W/m K  0,033  Thermal conductivity $\lambda_D$ Durability characteristics  DS (70,90)  %  NPD  Tensile/Flexural strength  Tensile strength perpendicular to faces  TR  kPa  NPD  NPD		Reaction to fire	RtF	Euroclass	A1	
ageing/degradation  Inermal conductivity  Durability characteristics  DS (70,90)  Tensile/Flexural strength  Tensile strength perpendicular to faces  TR  kPa  NPD  Durability of compressive strength against heat, weathering,  Compressive creen	D. 1899 - Oh I add a second and a second a second and a second	Thermal resistance	R <sub>D</sub>	m² K/W	see below table	
Tensile/Flexural strength Tensile strength perpendicular to faces TR kPa NPD  Durability of compressive strength against heat, weathering,  Compressive creen CC(i, /i, /v) g mm NPD		Thermal conductivity	$\lambda_{D}$	W/m K	0,033	
Durability of compressive strength against heat, weathering,	ageing/degradation	Durability characteristics	DS (70,90)	%	NPD	
	Tensile/Flexural strength	Tensile strength perpendicular to faces	TR	kPa	NPD	
		Compressive creep	CC(i <sub>1</sub> /i <sub>2</sub> /y) σ <sub>c</sub>	mm	NPD	
NPD: No Performance Determined	NPD: No Performance Determined	1	1		ı	

9 The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.

Thickness	d <sub>N</sub> (mm)	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	180	200
Thermal resistance	R <sub>D</sub> (m <sup>2</sup> K/W)	0,60	0,90	1,20	1,50	1,80	2,10	2,40	2,70	3,00	3,30	3,60	3,90	4,20	4,50	4,80	5,45	6,05

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

Name: Dr. Chadiarakou Stella Function: Quality Assurance Manager

Place: Thessaloniki 1/3/2021 Date:

Signature: