Declaration of Performance





DoP Number: GR-2037-004

1 Unique identification code of the product-type:

MW-EN 13162-T4-WS-WL(P)-MU1-AW1-AFr50

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

FIBRANgeo B-090

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)

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

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

 $5\ \ Name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) of the regulation <math>n^{\circ}$ 305/2011/EU:

Not applicable

 $6\ \ System\ or\ systems\ of\ assessment\ and\ verification\ of\ constancy\ of\ performance\ of\ the\ construction\ product\ as\ set\ out\ in\ Annex\ V\ of\ the\ Regulation\ n^{\circ}$ 305/2011/EU:

AVCP - System 1 - System 3

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 _L	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 _D	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	λ_{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 _D 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 _N	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 _D m² K/W see below table thermal resistance Thermal conductivity λ _D 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 _D m² K/W see below table thermal conductivity λ _D 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 _D m² K/W see below tabl Thermal conductivity λ_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 λ_D Compressive strength λ_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 λ_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 λ_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 λ_D λ_D W/m K 0,033 Thermal conductivity λ_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 _D	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	λ_{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 ₁ /i ₂ /y) σ _c	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 _N (mm)	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	180	200
Thermal resistance	R _D (m ² 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: