Declaration of Performance





DoP Number: GR-2253-004

1 Unique identification code of the product-type:

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

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

FIBRANgeo B-001-AX

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° 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

Realease of dangerous substances Acoustic absorption index Sound absorption Acoustic absorption index Sound absorption Acoustic absorption index Sound absorption Acoustic absorption index Dynamic stiffness Thickness d, mmm NPI Thickness Corpressibility AFr kPa.s/m² NPI Air flow resistivity AFr kPa.s/m² NPI Direct airborne sound insulation index Air flow resistivity AFr kPa.s/m² NPI Continous glowing combustion Continous glowing combustion Continous glowing combustion Continous glowing combustion Continous glowing combustion Thermal resistance Thermal resistance Thermal conductivity A ₀ W/m K 0,003 Thickness Thickness A ₁ mmm 20-3 Thickness Thickness and A ₁ mmm 20-3 Thickness and A ₂ mmm 20-3 Thickness and A ₃ mmm 20-3 Thickness and A ₃ mmm 20-3 Thickness and A ₄ m	Essential characteristics	Performance	Abbreviation	Unit	Declared performance		
Acoustic absorption index Sound absorption AW	Reaction to fire	Reaction to fire	RtF	Euroclass	С		
Dynamic stiffness SD MN/m³ NP	Realease of dangerous substances	Realease of dangerous substances			NPD		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Acoustic absorption index	Sound absorption	AW	-	NPD		
Impact noise transmission index Compressibility CP mm NPI Air flow resistivity AFr $kPa.s/m^2$ NPI Direct airborne sound insulation index Air flow resistivity AFr $kPa.s/m^2$ NPI Continous glowing combustion Thermal resistance R_0 $m^2 KW$ see below Thermal resistance R_0 $W/m K$ 0.03 Thermal conductivity h_0 $W/m K$ 0.03 Thickness d_N mm 20-3 Thermal resistance mm mm mm Water permeability Water vapour transmission mm mm mm Compressive strength mm <		Dynamic stiffness	SD	MN/m³	NPD		
Air flow resistivity AFr $kPa.s/m^2$ NPI Direct airborne sound insulation index Air flow resistivity AFr $kPa.s/m^2$ NPI Continous glowing combustion Continous glowing combustion NPI Thermal resistance R_0 $m^2 K/W$ see below Thermal resistance R_0 $m^2 K/W$ see below Thermal resistance R_0 $m^2 K/W$ see below Thickness R_0 $m^2 K/W$ see below Thickness Calass R_0 $m^2 K/W$ see below Thickness Calass R_0 R		Thickness	d _L	mm	NPD		
Direct airborne sound insulation index Air flow resistivity AFr kPa.s/m² NPI Continous glowing combustion Continous glowing combustion Thermal resistance Thermal resistance Thermal resistance Thermal conductivity Thickness Thickness Thickness Thickness Thickness class Thickness class To Class Thickness class To Clas	mpact noise transmission index	Compressibility	СР	mm	NPD		
Continous glowing combustion Continous glowing combustion Thermal resistance Thermal resistance Thermal resistance Thermal conductivity Applications Winn (0.03) Winn (0.03) Winn (0.03) Winn (0.03) Thermal conductivity Thermal resistance Thermal conductivity Thermal resistance Thermal conductivity Thermal conducti		Air flow resistivity	AFr	kPa.s/m²	NPD		
Thermal resistance $R_0 = \frac{1}{M} 1$	Direct airborne sound insulation index	Air flow resistivity	AFr	kPa.s/m²	NPD		
Thermal resistance	Continous glowing combustion	Continous glowing combustion			NPD		
Thickness d _N mm 20-3 Thickness d _N mm 20-3 Thickness d _N mm 20-3 Thickness class T Class T4 Short term water absorption WS kg/m² <1 Long term water absorption WL(P) kg/m² <3 Water vapour permeability Water vapour transmission Z m2hPa/mg 0 Compressive strength Point Load PL(5) N NPI Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass C Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance R _D m² K/W see below Thermal conductivity \(\lambda_D\) W/m K 0,03 Durability characteristics DS (70,90) % NPI Durability of compressive strength against heat, weathering, Compressive (reep) CC(6,6,6,4) gr mm NPI Durability of compressive strength against heat, weathering, Compressive (reep) CC(6,6,6,4) gr mm NPI Durability of compressive strength against heat, weathering, Compressive (reep) CC(6,6,6,4) gr mm NPI Durability of compressive strength against heat, weathering, Compressive (reep) CC(6,6,6,4) gr mm NPI Durability of compressive strength against heat, weathering, Compressive (reep) CC(6,6,4,4) gr mm NPI Durability of compressive strength against heat, weathering, Compressive (reep) CC(6,6,4,4) gr mm NPI Durability of compressive strength against heat, weathering, Compressive (reep) CC(6,6,4,4) gr mm NPI Durability of compressive strength against heat, weathering, Compressive (reep) CC(6,6,4,4) gr mm NPI Durability of compressive strength against heat, weathering, Compressive (reep) CC(6,6,4,4) gr mm NPI Durability of compressive strength against heat, weathering, Compressive (reep) CC(6,6,4,4,4) gr mm NPI Durability of compressive strength against heat, weathering, Compressive strength against heat		Thermal resistance	R _D	m² K/W	see below table		
Thickness dass Thickness class c	Thermal resistance	Thermal conductivity	λ _D	W/m K	0,033		
Short term water absorption WS kg/m² C1		Thickness	d _N	mm	20-300		
Water permeability Long term water absorption WL(P) kg/m² 3 Water vapour permeability Water vapour transmission MU - 1 Compressive strength Compressive stress CS(10) kPa NPI Compressive strength Point Load PL(5) N NPI Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass C Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance R _D m² K/W see below Thermal conductivity \(\Delta_0\) \(\Delta_0\) \(\Delta_0\) \(\Delta_0\) \(\Delta_0\) Tensile/Flexural strength Tensile strength perpendicular to faces TR kPa NPI Durability of compressive strength against heat, weathering, COMPRESSIVE creen CC(L/L/M) G mm NPI		Thickness class	T	Class	T4		
Long term water absorption WL(P) kg/m² c3 Water vapour permeability MU - 1 Compressive strength Compressive stress CS(10) kPa NPI Compressive strength Point Load PL(5) N NPI Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass C Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance R _D m² K/W see below W/m K 0,03 Durability of compressive strength Tensile strength perpendicular to faces TR kPa NPI Durability of compressive strength against heat, weathering, COMPRESSIVE creen CC(L/L/M) G mm NPI		Short term water absorption	WS	kg/m²	<1		
Water vapour permeability Water vapour transmission Z m2hPa/mg 0 Compressive strength CS(10) kPa NPI Compressive stress CS(10) kPa NPI Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass C Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp m² K/W see below Thermal conductivity λ₀ W/m K 0,03 Durability characteristics DS (70,90) % NPI Durability of compressive strength against heat, weathering, COMPRESSIVE (resp.) CC(i/i/k)/d.g. mm NPI	Water permeability	Long term water absorption	WL(P)	kg/m²	<3		
Compressive strength Compressive stress CS(10) kPa NPI Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire	Water and a second and a second as the second	Wetersensensensensensensensensensensensensens	MU	-	1		
Compressive strength Point Load PL(5) N NPI Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire Reaction to	water vapour permeability	water vapour transmission	Z	m2hPa/mg	0		
Point Load PL(5) N NPI Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass C Durability of thermal resistance against heat, weathering, ageing/degradation Thermal conductivity $\lambda_{\rm D}$ W/m K 0,03 ageing/degradation Durability characteristics DS (70,90) % NPI Tensile/Flexural strength Tensile strength perpendicular to faces TR kPa NPI Durability of compressive strength against heat, weathering, Compressive reap CC(i/i/k) G mm NPI	Compressive strongth	Compressive stress	CS(10)	kPa	NPD		
ageing/degradation Reaction to fire REF Euroclass C Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Thermal resistance Thermal conductivity λ_D Durability of Loracteristics DS (70,90) Tensile/Flexural strength Tensile strength perpendicular to faces TR REF Euroclass C Mym K 0,03 NPI Tensile/Flexural strength Tensile strength perpendicular to faces TR RP NPI NPI NPI NPI NPI NPI NPI	Compressive strength	Point Load	PL(5)	N	NPD		
Durability of thermal resistance against heat, weathering, ageing/degradation Thermal conductivity Durability characteristics DS (70,90) W/m K 0,03 Application NPI Tensile/Flexural strength Tensile strength perpendicular to faces TR kPa NPI Durability of compressive strength against heat, weathering, Compressive resp.		Reaction to fire	RtF	Euroclass	С		
ageing/degradation $\frac{1}{D}$ Inermal conductivity $\frac{A_D}{D}$ W/m K 0,03 ageing/degradation $\frac{1}{D}$ Durability characteristics $\frac{1}{D}$ DS (70,90) % NPI Tensile/Flexural strength $\frac{1}{D}$ Tensile strength perpendicular to faces $\frac{1}{D}$ TR $\frac{1}{D}$ RPI Durability of compressive strength against heat, weathering, $\frac{1}{D}$ Compressive creen $\frac{1}{D}$ Compressive creen $\frac{1}{D}$ Compressive strength against heat, weathering, $\frac{1}{D}$ Compressive creen $\frac{1}{D}$ Compressive creen $\frac{1}{D}$ Compressive strength against heat, weathering, $\frac{1}{D}$ Compressive creen $\frac{1}{D}$ Compressive creen $\frac{1}{D}$ Compressive strength against heat, weathering, $\frac{1}{D}$ Compressive creen $\frac{1}{D}$ Comp	a tille til til till till till till till	Thermal resistance	R _D	m² K/W	see below table		
Tensile/Flexural strength Tensile strength perpendicular to faces TR kPa NPI Durability of compressive strength against heat, weathering, Compressive creen CC(i, i, i, k) g		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		
ageing/degradation	Durability of compressive strength against heat, weathering, ageing/degradation	Compressive creep	CC(i ₁ /i ₂ /y) σ _c	mm	NPD		
NPD: No Performance Determined	NPD: No Performance Determined	ı	l				

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: