Declaration of Performance





DoP Number: GR-2208-004

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 R-060-AL

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:

 $5\ Name \ and \ contact \ address \ of \ the \ authorised \ representative \ whose \ mandate \ covers \ the \ tasks \ specified \ in \ Article \ 12(2) \ of \ the \ regulation \ n^{\circ}$ 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

Reaction to fire Ref Euroclass Realease of dangerous substances Realease of dangerous substances Realease of dangerous substances Sound absorption AW - Dynamic stiffness SD MN/m³ Thickness d, mm Compressibility CP mm AFr kPa.s/m² Direct airborne sound insulation index Continous glowing combustion Thermal resistance Thermal resistance Thermal resistance Thermal conductivity Thickness Ag, mm T	Declared performance	Unit	Abbreviation	Performance	Essential characteristics
Acoustic absorption index Sound absorption AW - Dynamic stiffness SD MN/m³ Thickness dL mm Impact noise transmission index Compressibility CP mm Compressibility AFr kPa.s/m² lead of the pass/m² Direct airborne sound insulation index Air flow resistivity AFr kPa.s/m² lead of the pass/m² Continous glowing combustion Continous glowing combustion AFr kPa.s/m² lead of the pass/m² Thermal resistance Ro m² K/W m² K/W lead of the pass/m² lead of	A1	Euroclass	RtF	Reaction to fire	Reaction to fire
Impact noise transmission index Dynamic stiffness Dynamic sti	NPD			Realease of dangerous substances	Realease of dangerous substances
Thickness di mm mm mm mm mm mm mm	NPD	-	AW	Sound absorption	Acoustic absorption index
Impact noise transmission index Compressibility	NPD	MN/m³	SD	Dynamic stiffness	Impact noise transmission index
Air flow resistivity Air flow resistivity AFr kPa.s/m² ABr ABr AFr kPa.s/m² ABR ABR ABR ABR ABR ABR ABR AB	NPD	mm	d _L	Thickness	
Direct airborne sound insulation index Air flow resistivity AFr kPa.s/m² Continous glowing combustion Continous glowing combustion Thermal resistance Thermal resistance Thermal resistance Thermal conductivity Thickness Thickness Thickness class Thickness class Thormal resistance Water permeability Water vapour transmission Compressive strength Compressive stress Compressive strength Durability of reaction to fire against heat, weathering, ageing/degradation Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Thermal conductivity Durability of thermal resistance Thermal resistan	NPD	mm	СР	Compressibility	
Continous glowing combustion Continous glowing combustion Thermal resistance Thermal resistance Thermal resistance Thermal resistance Thermal conductivity Thickness Thickness Thickness Thickness Thickness Thickness Thickness dass Thormal resistance Thermal resistance Thermal conductivity Thickness Thickness Thickness Thickness Thickness Thickness Thickness Thickness Thickness Thermal resistance Thermal conductivity Thermal resistance Thermal conductivity Thermal conductivity Thermal resistance Thermal conductivity Thermal conductivity Thermal resistance Thermal conductivity Thermal conductiv	NPD	kPa.s/m²	AFr	Air flow resistivity	
Thermal resistance Thermal conductivity Thermal resistance Thermal resistance Thermal resistance Thermal resistance Thermal resistance Thermal conductivity Thermal resistance Thermal resistance Thermal conductivity Thermal conductivity Thermal resistance Thermal conductivity	NPD	kPa.s/m²	AFr	Air flow resistivity	Direct airborne sound insulation index
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	NPD			Continous glowing combustion	Continous glowing combustion
Thickness d _N mm Thickness dass T Class Water permeability Water vapour permeability Water vapour permeability Water vapour transmission Compressive strength Compressive strength Durability of reaction to fire against heat, weathering, ageing/degradation Durability of thermal resistance against heat, weathering, ageing/degradation Thickness d _N mm T Class T Class T MU T MU T MU T M2 T M2hPa/mg T MU T M2hPa/mg T MPa T MD T MPa T MP	see below table	m² K/W	R _D	Thermal resistance	Thermal resistance
	0,035	W/m K	λ _D	Thermal conductivity	
Short term water absorption WS kg/m² Long term water absorption WL(P) kg/m² Water vapour permeability Water vapour transmission MU - MU - Mater vapour transmission Z mahPa/mg Compressive strength Compressive stress CS(10) kPa Point Load PL(5) N Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass Durability of thermal resistance against heat, weathering, ageing/degradation Durability of thermal conductivity No Mym K Durability of thermal resistance SR0 Thermal conductivity No Mym K Durability characteristics DS (70,90) %	30-80	mm	d _N	Thickness	
Water permeability Long term water absorption WL(P) kg/m² Water vapour permeability MU - Compressive stress CS(10) kPa Compressive stress CS(10) kPa Point Load PL(5) N Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Ro Thermal conductivity A _D W/m K Durability of thermal resistance against heat, weathering, ageing/degradation Thermal conductivity A _D W/m K Durability characteristics DS (70,90) %	T4	Class	Т	Thickness class	
Long term water absorption WL(P) kg/m²	<1	kg/m²	WS	Short term water absorption	Water permeability
Water vapour permeability Water vapour transmission Z m2hPa/mg Compressive strength Compressive stress CS(10) kPa Point Load PL(5) N Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Ro Thermal conductivity \(\Delta_0\) \(\Delt	<3	kg/m²	WL(P)	Long term water absorption	
Compressive strength Compressive stress CS(10) RPa Point Load Point Load Point Load Point Load Point Load Point Load PL(5) N Durability of reaction to fire against heat, weathering, ageing/degradation Durability of thermal resistance against heat, weathering, ageing/degradation Thermal conductivity Durability of haracteristics DS (70,90) %	NPD	-	MU	Water vapour transmission	Water vapour permeability
Compressive strength Point Load PL(5) N Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass Durability of thermal resistance against heat, weathering, ageing/degradation Thermal conductivity No W/m K Durability of thermal resistance Phermal conductivity No W/m K Durability characteristics DS (70,90) %	>150	m2hPa/mg	Z		
Point Load PL(5) N Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire Reaction to fire Reaction to fire Reaction to fire Ref Rection to fire Ref Rection to fire Rection to fire Ref Rection to fire Ref Buroclass Thermal resistance Thermal conductivity Ab W/m K Durability characteristics DS (70,90) %	NPD	kPa	CS(10)	Compressive stress	Compressive strength
ageing/degradation Reaction to fire RtF Euroclass Durability of thermal resistance against heat, weathering, ageing/degradation Thermal conductivity λ_D W/m K Durability characteristics DS (70,90) %	NPD	N	PL(5)	Point Load	
Durability of thermal resistance against heat, weathering, ageing/degradation	A1	Euroclass	RtF	Reaction to fire	
ageing/degradation	see below table		R _D	Thermal resistance	
Durability characteristics DS (70,90) %	0,035	W/m K	λ _D	Thermal conductivity	
Tensile/Flexural strength Tensile strength perpendicular to faces TR kPa	NPD	%	DS (70,90)	Durability characteristics	
	NPD	kPa	TR	Tensile strength perpendicular to faces	Tensile/Flexural strength
Durability of compressive strength against heat, weathering, ageing/degradation CC(i ₁ /i ₂ /y) σ_c mm	NPD	mm	CC(i ₁ /i ₂ /y) σ _c	Compressive creep	
NPD: No Performance Determined				1	NPD: No Performance Determined

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)	30	40	50	60	70	80
Thermal resistance	R _D (m ² K/W)	0,85	1,10	1,40	1,70	2,00	2,25

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: