## **Declaration of Performance**





DoP Number: GR-2066-004

1 Unique identification code of the product-type:

MW-EN 13162-T6-WS-WL(P)-MU1-SD10-CP3-AW0,95-AFr60

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

FIBRANgeo B-051-YA

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

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

Not applicable

## 8 Declared performance according to harmonized standard:

EN 13162:2012+A1:2015

Thermal conductivity \$\lambda_0\$ \ W/m K \ 0,035 \ \ Thickness \ Thickness \ d_N \ mm \ 20-300 \ Thickness \ Thickness \ dash \ T \ Class \ To \	Essential characteristics	Performance	Abbreviation	Unit	Declared performance	
Acoustic absorption index    Dynamic stiffness   SD   MN/m³   10	Reaction to fire	Reaction to fire	RtF	Euroclass	A1	
Dynamic stiffness   SD   MN/m³   10   Thickness   d, mm   50   SO   Compressibility   CP   mm   3   3   Air flow resistivity   AFr   kPa.s/m³   60   Continous glowing combustion   Thermal resistance   R <sub>D</sub>   m³ K/W   See below   Thermal resistance   Thermal conductivity   A   Air   Class   T6   Class   T7   Class	Realease of dangerous substances	Realease of dangerous substances			NPD	
Impact noise transmission index    Thickness	Acoustic absorption index	Sound absorption	AW	=	0,95	
Impact noise transmission index    Compressibility   CP   mm   3     Air flow resistivity   AFr   kPa.s/m²   60     Direct airborne sound insulation index   Air flow resistivity   AFr   kPa.s/m²   60     Continous glowing combustion   Continous glowing combustion   NPD     Thermal resistance   R <sub>0</sub>   m² K/W   see below to the main and the ma		Dynamic stiffness	SD	MN/m³	10	
Air flow resistivity $AFr$ $kPa.s/m^2$ $60$ Direct airborne sound insulation index $Air$ flow resistivity $AFr$ $kPa.s/m^2$ $60$ Continous glowing combustion $Air$ flow resistivity $AFr$ $Air$ $Air$ $Air$ $Air$ flow resistivity $AFr$ $Air$ $Air$ $Air$ $Air$ flow resistivity $AFr$ $Air$ $Air$ $Air$ $Air$ $Air$ flow resistivity $AFr$ $Air$		Thickness	d <sub>L</sub>	mm	50	
Direct airborne sound insulation index  Air flow resistivity  AFr	Impact noise transmission index	Compressibility	CP	mm	3	
Continous glowing combustion  Continous glowing combustion  Thermal resistance  Thermal resistance  Thermal resistance  Thermal conductivity  Thickness  T		Air flow resistivity	AFr	kPa.s/m²	60	
Thermal resistance $R_D = m^2 K/W = see below to the fire against heat, weathering, ageing/degradation R_D = m^2 K/W = see below to fire against heat, weathering, ageing/degradation R_D = m^2 K/W = m^2 K/W = see below to fire against heat, weathering, ageing/degradation R_D = m^2 K/W = m^2 K$	Direct airborne sound insulation index	Air flow resistivity	AFr	kPa.s/m²	60	
Thermal resistance	Continous glowing combustion	Continous glowing combustion			NPD	
Thickness   d <sub>N</sub>   mm   20-300   Thickness class   T   Class   T6   Water permeability   Short term water absorption   WS   kg/m²   <1   Ung term water absorption   WL(P)   kg/m²   <3   Water vapour permeability   Water vapour transmission   MU   -		Thermal resistance	R <sub>D</sub>	m² K/W	see below table	
Thickness   d <sub>N</sub>   mm   20-300   Thickness class   T   Class   T6   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   NPD   Compressive strength   Point Load   PL(5)   N   NPD   Durability of reaction to fire against heat, weathering, ageing/degradation   Thermal resistance   R <sub>D</sub>   m² K/W   See below the male conductivity   \(\lambda_D\)   Durability characteristics   DS (70,90)   \(\frac{1}{2}\)   NPD   NPD   Durability of compressive strength   Tensile strength perpendicular to faces   TR   kPa   NPD   Durability of compressive strength against heat, weathering, ageing/degradation   Tensile strength perpendicular to faces   TR   kPa   NPD   Durability of compressive strength against heat, weathering, Compressive strength perpendicular to faces   TR   kPa   NPD   Durability of compressive strength against heat, weathering, Compressive strength   Compressi	The surred are sinterness	Thermal conductivity	$\lambda_{D}$	W/m K	0,035	
Short term water absorption   WS   kg/m²   <1	Thermal resistance	Thickness	d <sub>N</sub>	mm	20-300	
Water permeability       Long term water absorption       WL(P)       kg/m²          Water vapour permeability       Water vapour transmission       MU       -       1         Compressive strength       CS(10)       kPa       NPD         Compressive strength       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       Ro       m² K/W       see below to the possible strength perpendicular to faces       DS (70,90)       %       NPD         Tensile/Flexural strength       Tensile strength perpendicular to faces       TR       kPa       NPD         Durability of compressive strength against heat, weathering, compressive strengt		Thickness class		Class	T6	
Long term water absorption   WL(P)   kg/m²   <3		Short term water absorption	WS	kg/m²	<1	
Water vapour permeabilityWater vapour transmissionZm2hPa/mgNPDCompressive strengthCompressive stressCS(10)kPaNPDPoint LoadPL(5)NNPDDurability of reaction to fire against heat, weathering, ageing/degradationReaction to fireRtFEuroclassA1Thermal resistance Thermal resistance against heat, weathering, ageing/degradationThermal resistance Thermal conductivityRbm² K/Wsee below to the mode of the	Water permeability	Long term water absorption	WL(P)	kg/m²	<3	
Compressive strength $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Marin Land	M	MU	-	1	
Compressive strength  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  Thermal resistance  Thermal conductivity $\lambda_D$	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 to the mal resistance against heat, weathering, ageing/degradation  Thermal conductivity $\lambda_D$ W/m K 0,0335 ageing/degradation  Tensile/Flexural strength  Tensile strength perpendicular to faces TR kPa NPD  Durability of compressive strength against heat, weathering, Compressive creen CG(i,i), $\lambda_D$ mm.	C	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 $\lambda_D$	Compressive strength	Point Load	PL(5)	N	NPD	
Durability of thermal resistance against heat, weathering, ageing/degradation  Thermal conductivity $\lambda_0$ $\lambda_0$ W/m K  0,035  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		Reaction to fire	RtF	Euroclass	A1	
ageing/degradation  Inermal 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 creen	B. Life Col. I are a second of	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, ij, h) or mm NPD		Thermal conductivity	λ <sub>D</sub>	W/m K	0,035	
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	
[3. 3. ····	Durability of compressive strength against heat, weathering, ageing/degradation	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	•			<u> </u>	

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)	0,55	0,85	1,10	1,40	1,70	2,00	2,25	2,55	2,85	3,10	3,40	3,70	4,00	4,25	4,55	5,10	5,70

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: