Declaration of Performance

DoP Number:

- 1 Unique identification code of the product-type:
- 2 Identification of the construction product as required under Article 11(4) of the regulation n° 305/2011/EU:
- 3 Intended use/es:
- 4 Manufacturer:
- 5 Systems/s of AVCP:
- 6 Harmonised standard:
- Notified bodies:

Notified Certification bodies FIW (Forschunginstitut für Wärmeschutz e.v München) N° 0751 and MPA (Materialprüfanstalt fün das Bauwesen Hannover) N° 0764 performed, carried out the determination of the product type, the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of constancy of performance for reaction to fire.

7 Declared performance:

Thermal resistanceThermal conductivity λ_{D} W/m K0.033 (0.033)Thickness d_N mm20-280Thickness classTClassT4Water permeabilityShort term water absorptionWSkg/m ² <1Water vapour permeabilityWater vapour transmissionMU-NPDCompressive strengthCompressive stressCS(10)kPaNPDDurability of reaction to fire against heat, weathering, ageing/degradationRtFEuroclassA1Durability of compressive strengthThermal resistanceR_Dsee table beloDurability of compressive strengthThermal resistanceR_Dsee table beloDurability of thermal resistance against heat, weathering, ageing/degradationTensile strength perpendicular to facesTRkPaNPDDurability of compressive strengthTensile strength perpendicular to facesTRkPaNPDDurability of compressive strength against heat, weathering, ageing/degradationCC(i ₁ /i ₂ /y) σ_c mmNPDDurability of compressive strengthCompressive creepCC(i ₁ /i ₂ /y) σ_c mmNPD	Essential characteristics	tics Performance		Unit	Declared performance		
Acoustic absorption indexSound absorptionAW-NPDDynamic stiffnessSDMN/m ¹ NPDImpact noise transmission indexThitcknessd,mmNPDThitcknessd,mmNPDNPDAir flow resistivityAFrkPa.s/m ² NPDDirect airborne sound insulation indexAir flow resistivityAFrkPa.s/m ² NPDContinous glowing combustionContinous glowing combustionNPDNPDContinous glowing combustionContinous glowing combustionNPDThermal resistanceReRem ² K/Wsee table beloThicknessd,mm20-280Thicknessd,mm20-280Thicknessd,mm20-280Thickness classTClassT4Stort term water absorptionWL(P)kg/m ² <1	Reaction to fire	Reaction to fire	RtF	Euroclass	A1		
	Realease of dangerous substances	Realease of dangerous substances			NPD		
Impact noise transmission indexHickness Compressibilityd_mmNPD OPImpact noise transmission indexAir flow resistivityAFr $k^{Pa.s./m^{2}}$ NPDDirect airborne sound insulation indexAir flow resistivityAFr $k^{Pa.s./m^{2}}$ NPDContinous glowing combustionContinous glowing combustionContinous glowing combustionNPDContinous glowing combustionContinous glowing combustionRepmark KWsee table belowThermal resistanceRom/KW0.03320-200Thermal resistanced_NMMK0.03320-200ThicknessInterne sound insutionWS kg/m^{2} <	Acoustic absorption index	Sound absorption	AW	-	NPD		
$ \frac{Compressibility}{Internal resistance} \qquad \frac{Compressibility}{Internal resistance} \qquad CP & mm & NPD \\ \hline Compressive strength Compressive strength against heat, weathering, ageing/degradation Compressive strength Compressive strength against heat, weathering, ageing/degradation \\ \hline Compatibility of compressive strength against heat, weathering, ageing/degradation \\ \hline Compressive strength against heat, weathering, ageing degradation \\ \hline Compressive strength perpendicular to faces \\ \hline Compressive strength against heat, weathering, ageing degradation \\ \hline Compressive strength against heat, weathering, ageing degradation \\ \hline Compressive strength against heat, weathering, ageing degradation \\ \hline Compressive strength perpendicular to faces \\ \hline Compressive strength perpendicular to faces \\ \hline Compressive strength against heat, weathering, ageing degradation \\ \hline Compressive strength perpendicular to faces \\ \hline Compressive strength against heat, weathering, ageing degradation \\ \hline Compressiv$		Dynamic stiffness	SD	MN/m ³	NPD		
$\frac{1}{1} \frac{1}{1} \frac{1}$		Thickness	dL	mm	NPD		
Direct airborne sound insulation indexAir flow resistivityAFrkPa.s/m²NPDContinous glowing combustionContinous glowing combustionNPDNPDNPDContinous glowing combustionImage comparisonRpom² KWsee table beloThermal resistanceRpoM/m K0.033NPDThermal resistancedqimm20-280NPDThermal resistancedqimm20-280NPDThermal resistancedqimm20-280NPDThickness classTClassT4NPDTherma resistanceShort term water absorptionWSkg/m²<1	Impact noise transmission index	Compressibility	СР	mm	NPD		
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Interfact of the standard performanceInterfact of the standard <td>Direct airborne sound insulation index</td> <td>Air flow resistivity</td> <td>AFr</td> <td>kPa.s/m²</td> <td colspan="3">NPD</td>	Direct airborne sound insulation index	Air flow resistivity	AFr	kPa.s/m²	NPD		
Thermal resistanceThermal conductivity λ_0 W/m K0.033Thickness d_N mm20-280Thickness classTClassT4Water permeabilityShort term water absorptionWSkg/m ² <1	Continous glowing combustion	Continous glowing combustion			NPD		
$\frac{\text{Thermal resistance}}{\text{Thickness} class} & \text{d}_{N} & \text{mm} & 20-280 \\ \hline \text{Thickness class} & \text{T} & \text{Class} & \text{T4} \\ \hline \text{Short term water absorption} & WS & kg/m^{2} & <1 \\ \hline \text{Long term water absorption} & WL(P) & kg/m^{2} & <3 \\ \hline \text{Long term water absorption} & WL(P) & kg/m^{2} & <3 \\ \hline \text{Water vapour permeability} & \text{Water vapour transmission} & \frac{MU & - & \text{NPD}}{Z} & \text{MPD/mg} & >150 \\ \hline \text{Compressive strength} & \frac{\text{Compressive stress}}{P_{\text{oint} \text{ Load}} & PL(5) & \text{N} & \text{NPD} \\ \hline \text{Point Load} & PL(5) & \text{N} & \text{NPD} \\ \hline \text{Durability of thermal resistance against heat, weathering, ageing/degradation} & RtF & Euroclass & A1 \\ \hline \text{Durability characteristics} & DS (70,90) & \% & \text{NPD} \\ \hline \text{Tensile/Flexural strength} & \text{Tensile strength perpendicular to faces} & TR & kPa & \text{NPD} \\ \hline \text{Durability of compressive strength against heat, weathering, ageing/degradation} & \text{Tensile strength perpendicular to faces} & TR & kPa & \text{NPD} \\ \hline \text{Durability of compressive strength against heat, weathering, ageing/degradation} & \text{Tensile strength perpendicular to faces} & TR & kPa & \text{NPD} \\ \hline \text{Durability of compressive strength against heat, weathering, ageing/degradation} & \text{Tensile strength perpendicular to faces} & TR & kPa & \text{NPD} \\ \hline \text{Durability of compressive strength against heat, weathering, ageing/degradation} & \text{Tensile strength perpendicular to faces} & TR & kPa & \text{NPD} \\ \hline \text{Durability of compressive strength against heat, weathering, ageing/degradation} & \text{Tensile strength perpendicular to faces} & TR & kPa & \text{NPD} \\ \hline \text{Durability of compressive strength against heat, weathering, ageing/degradation} & \text{CC(I}_{1}/I_{2}/y) \sigma_{c} & \text{mm} & \text{NPD} \\ \hline \text{Durability of compressive strength against heat, weathering, ageing/degradation} & \text{CC(I}_{1}/I_{2}/y) \sigma_{c} & \text{mm} & \text{NPD} \\ \hline \ \text{Durability of compressive strength against heat, weathering, ageing/degradation} & \text{CC(I}_{1}/I_{2}/y) \sigma_{c} & \text{mm} & \text{NPD} \\ \hline \ \end{tabular} = \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} $		Thermal resistance	R _D	m² K/W	see table below		
111111111111111111111111111111111111	T I I I.	Thermal conductivity	λ _D	W/m K	0,033		
$\frac{\text{Thickness class}}{\text{Short term water absorption}} & T & Class & T4 \\ \frac{\text{Short term water absorption}}{\text{Long term water absorption}} & WS & kg/m^2 & <1 \\ \frac{\text{Long term water absorption}}{\text{Long term water absorption}} & WL(P) & kg/m^2 & <3 \\ \frac{\text{Water vapour permeability}}{\text{Water vapour transmission}} & \frac{MU & - & NPD}{Z} \\ \frac{\text{Compressive strength}}{\text{Compressive strength}} & \frac{\text{Compressive stress}}{\text{Point Load}} & CS(10) & kPa & NPD \\ \frac{\text{Compressive stress}}{\text{Point Load}} & PL(5) & N & NPD \\ \frac{\text{Durability of reaction to fire against heat, weathering, ageing/degradation}}{\text{Thermal resistance}} & \frac{\text{Rection to fire}}{\text{Thermal resistance}} & RtF & Euroclass & A1 \\ \frac{\text{Thermal resistance}}{\text{Thermal resistance}} & DS (70.90) & \% & NPD \\ \frac{\text{Durability of compressive strength}}{\text{Tensile strength perpendicular to faces}} & TR & kPa & NPD \\ \end{array}$	I nermai resistance	Thickness		mm	20-280		
Water permeabilityLong term water absorptionWL(P)kg/m²<3Water vapour permeabilityWater vapour transmissionMU-NPDCompressive strengthCompressive stressCS(10)kPaNPDDurability of reaction to fire against heat, weathering, ageing/degradationReaction to fireRtFEuroclassA1Durability of thermal resistance against heat, weathering, ageing/degradationThermal resistanceRpsee table beloDurability of compressive strengthThermal resistanceDS (70,90)%NPDDurability of compressive strengthTensile strength perpendicular to facesTRkPaNPDDurability of compressive strength against heat, weathering, ageing/degradationCompressive creepCC(i_1/i_2/y) σ_c mmNPD		Thickness class		Class	T4		
Long term water absorptionWL(P)kg/m²<Water vapour permeabilityWater vapour transmissionMU-NPDZm2hPa/mg>150Compressive strengthCompressive stressCS(10)kPaNPDDurability of reaction to fire against heat, weathering, ageing/degradationReaction to fireRtFEuroclassA1Durability of thermal resistance against heat, weathering, ageing/degradationThermal resistanceRtFEuroclassA1Durability of thermal resistance against heat, weathering, ageing/degradationThermal conductivity λ_D W/m K0,033Durability of thermal strengthTensile strength perpendicular to facesTRkPaNPDDurability of compressive strength against heat, weathering, ageing/degradationCompressive creepCC(i_1/i_2/y) σ_c mmNPD		Short term water absorption	WS	kg/m ²	<1		
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Compressive strengthCompressive stressCS(10)kPaNPDDurability of reaction to fire against heat, weathering, ageing/degradationReaction to fireRtFEuroclassA1Durability of thermal resistance against heat, weathering, ageing/degradationThermal resistanceRtFEuroclassA1Durability of thermal resistance against heat, weathering, ageing/degradationThermal resistanceRtFEuroclassA1Durability of thermal resistance against heat, weathering, 			MU	-	NPD		
$\frac{1}{1} \frac{1}{1} \frac{1}$	Water vapour permeability	Water vapour transmission	Z	m2hPa/mg	>150		
Point LoadPL(5)NNPDDurability of reaction to fire against heat, weathering, ageing/degradationReaction to fireRtFEuroclassA1Durability of thermal resistance against heat, weathering, ageing/degradationIntermal resistanceRpsee table beloDurability of thermal resistance against heat, weathering, ageing/degradationIntermal conductivity λ_0 W/m K0.033Durability of thermal strengthTensile strength perpendicular to facesTRkPaNPDDurability of compressive strength against heat, weathering, ageing/degradationCC(i_1/i_2/y) \sigma_cmmNPD		Compressive stress	CS(10)	kPa	NPD		
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$\frac{1}{10000000000000000000000000000000000$		Reaction to fire	RtF	Euroclass	A1		
ageing/degradation Inermal conductivity Λ ₀ W/m K 0,033 Durability characteristics DS (70,90) % NPD Tensile/Flexural strength Tensile strength perpendicular to faces TR kPa NPD Durability of compressive strength against heat, weathering, ageing/degradation Compressive creep CC(i ₁ /i ₂ /y) σ _c mm NPD	Durability of thermal registance against heat weathering	Thermal resistance			see table below		
Durability of compressive strength against heat, weathering, ageing/degradation Durability characteristics DS (70,90) % NPD CC(i ₁ /i ₂ /y) σ _c TR kPa NPD							
Durability of compressive strength against heat, weathering, ageing/degradation Compressive creep CC(i ₁ /i ₂ /y) σ _c mm NPD		Durability characteristics	DS (70,90)	%	NPD		
ageing/degradation	Tensile/Flexural strength	Tensile strength perpendicular to faces	TR	kPa	NPD		
				mm	NPD		
NPD: No Performance Determined	NPD: No Performance Determined	1		1	1		

Thickness	d _N (mm)	40	50	60	70	80	90	100	110	120	130	140	150	160	180	200
Thermal resistance	R _D (m ² K/W)	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

8 Suitable technical justification and/or specific technical justification:

The performance of the product identified above is in conformity with the declared values. The declaration of these values is issued, according to EU Regulation 305/2011, under the sole responsibility of the manufacturer.

Name: Function: Place: Date: Signature:



Dr. Chadiarakou Stella

Quality Assurance Manager



GR-2058-005

FIBRANgeo B-021-AL

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

Thermal Insulation of Building

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

AVCP - System 1 - System 3

EN 13162:2012+A1:2015