Declaration of Performance

DoP Number:

- 1 Unique identification code of the product-type:
- $2 \ \ \text{Identification of the construction product as required under Article 11(4) of the regulation n^{\circ} \ 305/2011/\text{EU}:}$
- 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 on the and issued the certificate of constancy of performance for reaction to fire.

7 Declared performance:

$\begin{tabular}{ c c c c c } \hline Thermal conductivity & A_{D} & $W'm K$ & 0.035 \\ \hline Thickness & d_{N} & mm & 40.100 \\ \hline Thickness class & T & $Class$ & $T4$ \\ \hline Thickness class & T & $Class$ & $T4$ \\ \hline Class & $T4$ & $Class$ & $T4$ \\ \hline Class & $T4$ & $Class$ & $Class$$	Essential characteristics	Performance	Abbreviation	Unit	Declared performance
Acoustic absorption index Sound absorption AW NPD Impact noise transmission index Dynamic stiffness SD MN/m³ NPD Impact noise transmission index Air flow resistivity CP mm NPD Direct airborne sound insulation index Air flow resistivity AFr kPas/m² NPD Direct airborne sound insulation index Air flow resistivity AFr kPas/m² NPD Continous glowing combustion Continous glowing combustion NPD NPD NPD Thermal resistance Ro m² K/W see table below NPD Thermal resistance Ro m² K/W see table below NPD Thermal resistance Ro m² K/W see table below NPD Water permeability Short term water absorption WS kg/m² <1			RtF	Euroclass	
Dynamic stiffnessSDMN/m³NPDImpact noise transmission indexDynamic stiffnessd,mmNPDImpact noise transmission indexAir flow resistivityCPmmNPDDirect airborne sound insulation indexAir flow resistivityAFrkPas/m³NPDDirect airborne sound insulation indexAir flow resistivityAFrkPas/m³NPDContinous glowing combustionContinous glowing combustionNPDNPDThermal resistanceRgm° K/Wsee table belowThermal resistanceInternal resistanceRgm/ KW0.035Thicknessd,mm40-100NPDWater permeabilityWater vapour permeabilityWSkg/m²<1		, i i i i i i i i i i i i i i i i i i i			
$ \begin{array}{ c c c c c } \hline Thickness & d_i & mm & NPD \\ \hline Compressibility & CP & mm & NPD \\ \hline Compressibility & CP & mm & NPD \\ \hline Mr flow resistivity & AFr & kPas/m^2 & NPD \\ \hline Mr flow resistivity & AFr & kPas/m^2 & NPD \\ \hline Mr existivity & AFr & kPas/m^2 & NPD \\ \hline Direct airborne sound insulation index & Air flow resistivity & AFr & kPas/m^2 & NPD \\ \hline Continous glowing combustion & Continous glowing combustion & MPD & MPD \\ \hline Continous glowing combustion & Imm & kPas/m^2 & NPD \\ \hline Continous glowing combustion & Imm & kPas/m^2 & MPD \\ \hline Thermal conductivity & AFr & kPas/m^2 & MPD & MPD \\ \hline Thermal conductivity & Ap_0 & M'MK & 0.035 \\ \hline Thickness & das & T & Class & T4 & 0.005 \\ \hline Thickness & Gas & T & Class & T4 & 0.005 \\ \hline Thickness & Gas & T & Class & T4 & 0.005 & 0.005 \\ \hline Thickness & Gas & T & Class & T4 & 0.005 & 0.005 \\ \hline Thickness & Gas & T & Class & T4 & 0.005 & 0.005 & 0.005 & 0.005 \\ \hline Thickness & Gas & T & Class & T4 & 0.005 & 0.005 & 0.005 & 0.005 & 0.005 \\ \hline Thickness & Gas & T & Class & T4 & 0.005 & 0$	Acoustic absorption index				
Impact noise transmission indexCompressibilityCPmmNPDAir flow resistivityAFr $kPa.s/m^2$ NPDDirect airborne sound insulation indexAir flow resistivityAFr $kPa.s/m^2$ NPDContinous glowing combustionContinous glowing combustionAFr $kPa.s/m^2$ NPDThermal resistanceRo $m^2 k/W$ see table belorThermal resistanceRo $M'/m K$ 0.035Thermal resistance d_{ii} mm40-100Thickness d_{ii} mm40-100Thickness d_{ii} mm40-100ThicknessShort term water absorptionWL(P) kg/m^2 <3		-	-	MN/m ³	
InternationInternationInternationInternationAir flow resistivityAFr kPa_{S}/m^2 NPDDirect airborne sound insulation indexAir flow resistivityAFr kPa_{S}/m^2 NPDContinous glowing combustionContinous glowing combustionNPDNPDThermal resistanceRom ² K/WSee table belowThermal resistanceRom ² K/WSee table belowThermal resistanceRomm40-100Thicknessd_Nmm40-100Thickness classTClassT4Water permeabilityLong term water absorptionWSkg/m ² NPDWater vapour permeabilityWater vapour transmissionMU-NPDNPDCompressive strengthCompressive strengthCompressive stressCS(10)kPaNPDDurability of teraction to fire against heat, weathering, ageing/degradationReaction to fireRefEuroclassFDurability of teraction to fire against heat, weathering, ageing/degradationTensile strength perpendicular to facesTRkPaNPDDurability of compressive strengthTensile strength perpendicular to facesTRkPaNPDDurability of compressive strengthTensile strength perpendicular to facesTRkPaNPDDurability of compressive strength against heat, weathering, ageing/degradationCompressive attemption%NPDDurability of compressive strength against heat, weathering, ageing/degradation <td< td=""><td></td><td>Thickness</td><td>dL</td><td>mm</td><td>NPD</td></td<>		Thickness	dL	mm	NPD
Direct airborne sound insulation indexAir flow resitivityAFrkPa.s/m²NPDDirect airborne sound insulation indexContinous glowing combustionNPDNPDNPDContinous glowing combustionContinous glowing combustionNPDNPDThermal resistanceRom² K/Wsee table belorThermal resistanceRoM/m K0.035ThicknessGarman40-10011/1Thickness classTClassT4Water permeabilityShort term water absorptionWSkg/m²<1	Impact noise transmission index	Compressibility	СР	mm	NPD
Continuous glowing combustionContinuous glowing combustionNPDContinuous glowing combustionRom* K/WSee table belowThermal resistanceRom* K/WSee table belowThermal conductivity λ_0 W/m K0.035Thicknessd,umm40-100Thicknessd,umm40-100Thickness classTClassT4Water permeabilityShort term water absorptionWSkg/m²<1		Air flow resistivity	AFr	kPa.s/m ²	NPD
Thermal resistanceRom² K/Wsee table belowThermal resistanceRom² K/Wsee table belowThermal conductivity λ_0 W/m K0.035Thicknessd _N mm40-100Thickness classTClassT4Water permeabilityShort term water absorptionWSkg/m²<1	Direct airborne sound insulation index	Air flow resistivity	AFr	kPa.s/m²	NPD
Thermal resistanceThermal conductivity λ_{D} W/m K0.035Thickness d_N mm40-100Thickness classTClassT4Water permeabilityShort term water absorptionWSkg/m²<1	Continous glowing combustion	Continous glowing combustion			NPD
$\frac{\text{Thermal resistance}}{\text{Thickness class}} & \frac{d_{N}}{\text{T}} & \frac{mm}{40-100} \\ \hline \text{Thickness class} & T & Class & T4 \\ \hline \text{Class} & T4 & Class & T4 \\ \hline \text{Class} & \text{Class} & T4 & Class & Close &$		Thermal resistance	R _D	m² K/W	see table below
$\frac{\text{Thickness}}{\text{Thickness} class} & d_{\text{N}} & \text{mm} & 40-100}{\text{Thickness} class} & T & Class & T4 \\ \hline \text{Thickness} class & T & Class & T4 \\ \hline \text{Short term water absorption} & WS & kg/m^2 & <1 \\ \hline \text{Long term water absorption} & WL(P) & kg/m^2 & <3 \\ \hline \text{Water vapour permeability} & Water vapour transmission & MU & - & MPD \\ \hline \text{Z} & m2hPa/mg & >0,5 \\ \hline \text{Compressive strength} & Compressive strengs & CS(10) & kPa & MPD \\ \hline \text{Point Load} & PL(5) & N & MPD \\ \hline \text{Durability of reaction to fire against heat, weathering, ageing/degradation & MEF & Euroclass & F \\ \hline \text{Durability of thermal resistance against heat, weathering, ageing/degradation & Dirability characteristics & DS (70,90) & % & MPD \\ \hline \text{Durability of compressive strength} & Tensile strength perpendicular to faces & TR & kPa & MPD \\ \hline Durability of compressive strength against heat, weathering, ageing/degradation & Thermal resistance & TR & kPa & MPD \\ \hline \text{Durability of compressive strength against heat, weathering, ageing/degradation & Thermal resistance & TR & kPa & MPD \\ \hline \text{Durability of compressive strength against heat, weathering, ageing/degradation & Thermal resistance & TR & kPa & MPD \\ \hline \text{Durability of compressive strength against heat, weathering, for a max & MPD & MPD & MPD & MPD & MPD \\ \hline \text{Durability of compressive strength against heat, weathering, for a max & MPD &$	T I I I.	Thermal conductivity	λ _D	W/m K	0,035
$\frac{1}{\text{Thickness class}} & T & Class & T4 \\ \frac{1}{\text{Water permeability}} & Short term water absorption & WS & kg/m^2 & <1 \\ \text{Long term water absorption } & WL(P) & kg/m^2 & <3 \\ \frac{1}{\text{Long term water absorption }} & WL(P) & kg/m^2 & <3 \\ \frac{1}{\text{Water vapour permeability}} & Water vapour transmission & MU & - & NPD \\ \frac{1}{\text{Z}} & m2hPa/mg & >0,5 \\ \frac{1}{\text{Compressive strength}} & Compressive stress & CS(10) & kPa & NPD \\ \hline Point Load & PL(5) & N & NPD \\ \frac{1}{\text{Point Load}} & PL(5) & N & NPD \\ \frac{1}{\text{Durability of thermal resistance against heat, weathering, ageing/degradation} & Reaction to fire & R_D & see table below \\ \hline Thermal resistance & R_D & W/m K & 0,035 \\ \hline Durability of thermal resistance against heat, weathering, ageing/degradation & DIS (70,90) & \% & NPD \\ \hline Tensile/Flexural strength & Tensile strength perpendicular to faces & TR & kPa & NPD \\ \hline Durability of compressive strength against heat, weathering, ageing bernegative strength against heat, weathering, ageing/degradation & Thermal resistance & R_D & See table below \\ \hline Durability of compressive strength against heat, weathering, ageing/degradation & Thermal resistance & TR & kPa & NPD \\ \hline Durability of compressive strength against heat, weathering, ageing bernegative creap & CC(i, i, k) und & MPD & M$	i nermai resistance	Thickness	d _N	mm	40-100
Water permeabilityInternational permeasionWL (P)kg/m2Water vapour permeabilityWater vapour transmissionMU-NPDWater vapour permeabilityWater vapour transmissionMU-NPDCompressive strengthCompressive stressCS(10)kPaNPDDurability of reaction to fire against heat, weathering, ageing/degradationReaction to fireRtFEuroclassFDurability of thermal resistance against heat, weathering, ageing/degradationThermal resistanceRbsee table belorDurability of thermal resistance against heat, weathering, ageing/degradationThermal resistanceNbNPDDurability of compressive strengthTensile strength perpendicular to facesTRkPaNPDDurability of compressive strength against heat, weathering, ageing/degradationTensile strength perpendicular to facesTRkPaNPDDurability of compressive strengthTensile strength perpendicular to facesTRkPaNPDDurability of compressive strength against heat, weathering, burget bereget perpendicular to facesTRkPaNPDDurability of compressive strength against heat, weathering, burget bereget perpendicular to facesTRkPaNPDDurability of compressive strength against heat, weathering, burget bereget perpendicular to facesTRkPaNPDDurability of compressive strength against heat, weathering, burget bereget perpendicular to facesTRkPaNPD		Thickness class		Class	T4
Long term water absorptionWL(P)kg/m²<3Water vapour permeabilityWater vapour transmissionMU-NPDCompressive strengthCompressive stressCS(10)kPaNPDCompressive strengthPoint LoadPL(S)NNPDDurability of reaction to fire against heat, weathering, ageing/degradationReaction to fireRtFEuroclassFDurability of thermal resistance against heat, weathering, ageing/degradationThermal resistancePosee table beloDurability of thermal resistance against heat, weathering, ageing/degradationThermal resistanceNN/PDDurability of thermal resistance against heat, weathering, ageing/degradationThermal resistanceNN/PDDurability of thermal resistance against heat, weathering, ageing/degradationThermal resistanceNN/PDDurability of compressive strengthTensile strength perpendicular to facesTRkPaNPDDurability of compressive strength against heat, weathering, Durability of compressive strength against heat, weathering, Compressive strength a		Short term water absorption	WS	kg/m²	<1
Water vapour permeability Water vapour transmission Z m2hPa/mg >0,5 Compressive strength Compressive stress CS(10) kPa NPD Point Load PL(5) N NPD Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass F Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance R_D see table below Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance R_D see table below Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rb W/m K 0,035 Tensile/Flexural strength Tensile strength perpendicular to faces TR kPa NPD Durability of compressive strength against heat, weathering, ageinglity of compressive strength against heat, weathering, burget being the perpendicular to faces TR kPa NPD	Water permeability	Long term water absorption	WL(P)	kg/m ²	<3
Compressive strength Image: Compressive strength Image: Compressive strength Point Load PL(5) N NPD Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass F Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Ro see table below Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance ND W/m K 0.035 Durability characteristics DS (70,90) % NPD NPD Tensile/Flexural strength Tensile strength perpendicular to faces TR kPa NPD Durability of compressive strength against heat, weathering, Durability of compressive strength against heat, weathering,	Water vapour permeability	Water vapour transmission	-		
Point Load PL(5) N NPD Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Euroclass F Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance R_D see table below Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance R_D see table below Durability of thermal resistance against heat, weathering, ageing/degradation Thermal conductivity λ_D W/m K 0,035 Tensile/Flexural strength Tensile strength perpendicular to faces TR kPa NPD Durability of compressive strength against heat, weathering, Durability compressive strength against heat, weathering, Compressive stre	Compressive strength	Compressive stress	CS(10)	kPa	NPD
ageing/degradation Reaction to fire RtP Euroclass P Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Ro See table below Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Ro See table below Tensile/Flexural strength Tensile strength perpendicular to faces DS (70,90) % NPD Durability of compressive strength against heat, weathering, Durability of compressive strength against heat, weathering, Compressive creap CC(i, i, i, i)) r mm NPD	Compressive strength	Point Load	PL(5)	Ν	NPD
Durability of thermal resistance against heat, weathering, ageing/degradation Thermal conductivity $\lambda_{\rm D}$ W/m K 0.035 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 creep CC(L/L/W) g mm NPD		Reaction to fire	RtF	Euroclass	F
ageing/degradation Tennial Colloudivity App With Colloudivity App With Colloudivity App With Colloudivity App Collourability characteristics DS (70,90) % NPD Tensile/Flexural strength against heat, weathering, Compressive strength against heat, weathering, Com		Thermal resistance	R _D		see table below
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 creep C(1,1,1/4) gr mm NPD		Thermal conductivity	λ _D	W/m K	0,035
Durability of compressive strength against heat, weathering,	ageing/uegrauation	Durability characteristics	DS (70,90)	%	NPD
	Tensile/Flexural strength	Tensile strength perpendicular to faces	TR	kPa	NPD
		Compressive creep	$CC(i_1/i_2/y) \sigma_c$	mm	NPD
NPD: No Performance Determined	NPD: No Performance Determined		1		1

Thermal resistance R _D (m ² K/W) 1,10 1,40 1,70 2,00 2,25 2,55	Thickness	d _N (mm)	40	50	60	70	80	90	100
		R _D (m ² K/W)	1,10	1,40	1,70	2,00	2,25		2,85

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:	Dr. Chadiarakou Stella
Function:	Quality Assurance Manager
Place:	Thessaloniki
Date:	18/4/2022
Signature:	Anun



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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