Declaration of Performance

DoP Number:

- 1 Unique identification code of the product-type:
- $2 \ \ Identification \ of the \ construction \ product \ as \ required \ under \ Article \ 11(4) \ of \ the \ regulation \ n^{\circ} \ 305/2011/EU:$
- 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.

4,50

4,80

5,45

6,05

7 Declared performance:

Reaction to fire Reaction to fire Rtf Realease of dangerous substances Realease of dangerous substances M Acoustic absorption index Sound absorption AW Dynamic stiffness Gd, SD Impact noise transmission index Minic stiffness Gd, Direct airborne sound insulation index Air flow resistivity AFr Direct airborne sound insulation index Air flow resistivity AFr Continous glowing combustion Continous glowing combustion F Thermal resistance Ro Ro Thickness dq, Air Thermal resistance Ro T Water permeability Water vapour permeability WS MU Water vapour permeability Water vapour transmission MU Z Compressive strength Compressive stress CS(10) CS(10) Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire Rtf Durability of thermal resistance against heat, weathering, ageing/degradation DS(70,90) Thermal conductivity Ao	Euroclass	
Acoustic absorption index Sound absorption AW Impact noise transmission index Dynamic stiffness SD Impact noise transmission index Compressibility CP Air flow resistivity AFr Direct airborne sound insulation index Air flow resistivity AFr Continous glowing combustion Continous glowing combustion Fr Thermal resistance Ro Thermal conductivity Ap Thermal resistance Short term water absorption WS Water permeability Water vapour permeability MU Water vapour permeability Water vapour transmission MU Compressive strength Compressive stress CS(10) Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Ro Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Ro Durability characteristics DS (70,90) Thermal conductivity Ao		F
Impact noise transmission index Dynamic stiffness SD Impact noise transmission index Thickness dL Compressibility CP Air flow resistivity AFr Direct airborne sound insulation index Air flow resistivity AFr Continous glowing combustion Continous glowing combustion AFr Thermal resistance Rp Thermal resistance Rp Thickness d4n Apr Apr Water permeability MS And thermal resistance Thickness Water vapour permeability Water vapour transmission WL(P) Water vapour permeability Water vapour transmission Z Compressive strength Compressive stress CS(10) Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability of thermal resistance against heat, weathering, ageing/degradation Durability characteristics DS (70,90)		NPD
Impact noise transmission index Thickness dt Compressibility CP Air flow resistivity AFr Direct airborne sound insulation index Air flow resistivity AFr Continous glowing combustion Continous glowing combustion AFr Thermal resistance Rp Thermal resistance Rp Thermal resistance Thermal conductivity Ap Thickness Gass T Water permeability Water vapour permeability Water vapour transmission WS Long term water absorption WU(P) Z Compressive strength Compressive stress CS(10) Direct Load PL(S) Point Load PL(S) Durability of thermal resistance against heat, weathering, ageing/degradation Reaction to fire Rp Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability of thermal resistance against heat, weathering, ageing/degradation Durability characteristics DS (70,90)	-	NPD
Impact noise transmission index Compressibility CP Air flow resistivity AFr Direct airborne sound insulation index Air flow resistivity AFr Continous glowing combustion Continous glowing combustion AFr Thermal resistance Rp Thermal resistance Rp Thermal resistance Thermal conductivity Apr Water permeability Long term water absorption WS Water vapour permeability Water vapour transmission MU Compressive strength Compressive stress CS(10) Direction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability characteristics DS (70,90) Northeresistance Np	MN/m ³	NPD
Air flow resistivity AFr Air flow resistivity AFr Direct airborne sound insulation index Air flow resistivity AFr Continous glowing combustion Continous glowing combustion Fr Thermal resistance Rp Thermal resistance Rp Thermal resistance Rp Thickness dM Thickness dM Thickness dM Thickness dM Water permeability WS Water vapour permeability Water vapour transmission Compressive strength Compressive stress Compressive strength Compressive stress Durability of thermal resistance against heat, weathering, ageing/degradation Reaction to fire Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Thermal resistance against heat, weathering, ageing/degradation Thermal resistance Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Durability characteristics DS (70,90)	mm	NPD
Direct airborne sound insulation index Air flow resistivity AFr Continous glowing combustion Continous glowing combustion Rp Thermal resistance Thermal resistance Rp Thermal resistance Thermal conductivity Apr Water permeability Cong term water absorption WS Water vapour permeability Water vapour transmission MU Compressive strength Compressive stress CS(10) Durability of thermal resistance against heat, weathering, ageing/degradation Reaction to fire RtF Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Thermal resistance Drability characteristics DS (70,90)	mm	NPD
Continue glowing combustion Continuus glowing combustion Thermal resistance Rp Thickness dN Thickness dN Thickness dN Thickness Thickness Water permeability Short term water absorption Water vapour permeability Water vapour transmission Z Compressive strength MU Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Thermal resistance Rp Thermal resistance Rp Thermal resistance Durability characteristics DS (70,90)	kPa.s/m ²	NPD
$\begin{array}{c c} \mbox{Thermal resistance} & R_{\rm D} \\ \hline \mbox{Thermal conductivity} & \lambda_{\rm D} \\ \hline \mbox{Thickness} & & d_{\rm N} \\ \hline \mbox{Thickness} & & & d_{\rm N} \\ \hline \mbox{Thickness} & & & & & & \\ \hline \mbox{Thickness} & & & & & \\ \hline \mbox{Mater permeability} & & & \\ \hline \mbox{Water vapour permeability} & & & \\ \hline \mbox{Water vapour permeability} & & & \\ \hline \mbox{Water vapour permeability} & & \\ \hline \mbox{Water vapour permeability} & & \\ \hline \mbox{Water vapour permeability} & & \\ \hline \mbox{Water vapour transmission} & & & \\ \hline \mbox{MU} & & \\ \hline \mbox{Compressive strength} & & \\ \hline \mbox{Compressive strength} & & \\ \hline \mbox{Compressive strength} & & \\ \hline \mbox{Durability of reaction to fire against heat, weathering, ageing/degradation} & \\ \hline \mbox{Thermal resistance against heat, weathering, ageing/degradation} & \\ \hline \mbox{Thermal resistance against heat, weathering, ageing/degradation} & \\ \hline \mbox{Thermal resistance against heat, weathering, ageing/degradation} & \\ \hline \mbox{Thermal resistance against heat, weathering, ageing/degradation} & \\ \hline \mbox{Thermal resistance} & & \\ \hline \mbo$	kPa.s/m²	NPD
$\begin{array}{l lllllllllllllllllllllllllllllllllll$		NPD
Thickness d _N Thickness d _N Thickness Thickness Water permeability Short term water absorption Water vapour permeability Water vapour transmission Water vapour permeability MU Water vapour permeability MU Compressive strength MU Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance	m² K/W	see table below
$\frac{\text{Thickness}}{\text{Thickness}} \qquad \qquad$	W/m K	0,033
$\frac{\begin{tabular}{ c c c c } \hline Thickness class & T \\ \hline Thickness class & T \\ \hline Short term water absorption & WS \\ \hline Long term water absorption & WL(P) \\ \hline Water vapour permeability & Water vapour transmission & MU \\ \hline Z \\ \hline Compressive strength & Compressive stress & CS(10) \\ \hline Point Load & PL(5) \\ \hline Durability of reaction to fire against heat, weathering, ageing/degradation & Reaction to fire \\ \hline Thermal resistance main theat, weathering, ageing/degradation & Durability characteristics & DS (70,90) \\ \hline \end{tabular}$	mm	20-300
Water permeability Long term water absorption WL(P) Water vapour permeability Water vapour transmission MU Compressive strength Compressive stress CS(10) Point Load PL(S) Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance R_D Durability of thermal resistance against heat, weathering, ageing/degradation Durability characteristics DS (70,90)	Class	T4
Water permeability Long term water absorption WL(P) Water vapour permeability Water vapour transmission MU Compressive strength Compressive stress CS(10) Point Load PL(S) Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Ro Durability of thermal resistance against heat, weathering, ageing/degradation Durability characteristics DS (70,90)	kg/m²	<1
Water vapour permeability Water vapour transmission Z Compressive strength Compressive stress CS(10) Point Load PL(5) Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability of thermal resistance against heat, weathering, ageing/degradation Durability characteristics DS (70,90)	kg/m²	<3
Water vapour permeability Water vapour transmission Z Compressive strength Compressive stress CS(10) Point Load PL(5) Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability of thermal resistance against heat, weathering, ageing/degradation Durability characteristics DS (70,90)	-	NPD
Compressive strength Point Load PL(5) Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Rp Durability of thermal resistance against heat, weathering, ageing/degradation Thermal conductivity λ_p Durability characteristics DS (70,90) DS (70,90) DS (70,90)	m2hPa/mg	NPD
Point Load PL(5) Durability of reaction to fire against heat, weathering, ageing/degradation Reaction to fire RtF Durability of thermal resistance against heat, weathering, ageing/degradation Thermal resistance Ro Durability of thermal resistance against heat, weathering, ageing/degradation Thermal conductivity λo Durability characteristics DS (70,90) DURADILITY Characteristics DS (70,90)	kPa	NPD
ageing/degradation heat, weathering, ageing/degradation between the sistance against heat, weathering, ageing/degradation	N	NPD
Durability of thermal resistance against heat, weathering, ageing/degradation Thermal conductivity λ _D Durability characteristics DS (70,90)	Euroclass	F
ageing/degradation Durability characteristics DS (70,90)		see table below
Durability characteristics DS (70,90)	W/m K	0,033
Tensile/Flexural strength Tensile strength perpendicular to faces TR	%	NPD
	kPa	NPD
Durability of compressive strength against heat, weathering, ageing/degradation $CC(i_1/i_2/y) \sigma_c$	mm	NPD
NPD: No Performance Determined	· · · ·	'

2,10 2,70 Thermal resistance R_D (m² K/W) 0,60 0,90 1,20 1,50 1,80 2,40 3,00 3,30 3,60 3,90 4,20

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:	Jour



GR-2255-005 FIBRANgeo B-001-XA
MW-EN 13162-T4-WS-WL(P)
Thermal Insulation of Building
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AVCP - System 1 - System 3
EN 13162:2012+A1:2015