



DECLARATION OF PERFORMANCES No TNI/FR/TRB40/2021_05

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| <ol style="list-style-type: none"> 1. Unique identification code of the product type:
TNI/FR/TRB40/2021_05 2. Intended use or uses:
Thermal insulation for buildings 3. Manufacturer: Boerner Insulation sp. z o.o.
ul. Wyzwolenia 55, Wykroty, 59-730 Nowogrodzic, Poland | <ol style="list-style-type: none"> 4. System or systems of assessment and verification of constancy of performance: AVCP 1 and 3 5. Harmonised standard: EN 13162:2012+A1:2015 6. Notified certification body or bodies: Nr 1454
Sieć Badawcza Łukasiewicz – Warszawski Instytut Technologiczny 7. Declared performances: Table 1 |
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Table 1

DECLARED PERFORMANCES				
Essential characteristics	Requirement clauses in the European standard	Symbol	Unit	Declared level and/or classes / NPD ¹⁾
Thermal Resistance	Thermal conductivity	λ_D	W/mK	0,037
	Thermal resistance	R_D	m ² K/W	Table 2
	Thickness	Class of tolerance	mm	T5
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance	R_D	m ² K/W	Table 2
	Thermal conductivity	λ_D	W/mK	0,037
	Dimensional stability under specified temperature	DS (70,-)	%	NPD
	Dimensional stability under specified temperature and humidity condition	DS (70,90)	%	≤1
Reaction to fire	Reaction to fire Euroclass characteristics	RtF	Euroclass	A1
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability characteristics	RtF	Euroclass	A1
Water permeability	Short time water absorption	WS	kg/m ²	≤1
	Long time water absorption	WL(P)	kg/m ²	≤3
Water vapour permeability	Water vapour transition	MU	-	1
Compressive strength	Compressive stress or compressive strength	CS(10)	kPa	40
	Point load	PL(5)	N	250
Tensile strength	Tensile strength perpendicular to the faces	TR	kPa	10
Durability of compressive strength against ageing/degradation	Compressive creep	CC(i1/i2/y) σ_c	mm	NPD
Impact noise transition index	Dynamic stiffness	d_N	mm	NPD
		SD	MN/m ³	NPD
	Thickness	d_L	Mm	NPD
	Compressibility	C	mm	NPD
	Air flow resistivity	d_N	mm	NPD
A _{Fr}		kPa·s/m ²	NPD	
Direct airborne sound insulation index	Air flow resistivity	d_N	mm	NPD
		A _{Fr}	kPa·s/m ²	NPD
Sound absorption index	Sound absorption	A _p , A _w	-	NPD
Continuous glowing combustion	Continuous glowing combustion	-	-	NPD
Release of dangerous substances to the indoor	Release of dangerous substances	-	-	NPD

¹⁾ No Performance Declared

DECLARED THERMAL RESISTANCE															
Thickness[mm]	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
R_D [m ² K/W]	-	-	-	-	1,35	1,60	1,85	2,15	2,40	2,70	2,95	3,20	3,50	3,75	4,05
Thickness[mm]	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
R_D [m ² K/W]	4,30	4,55	4,85	5,10	5,40	-	-	-	-	-	-	-	-	-	-

The performance of the product identified above is consistent with the set of declared performance. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed on behalf of the manufacturer by:
Piotr Bonarski
Plant Manager

BOERNER INSULATION Sp. z o.o.
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Piotr Bonarski
[Signature]
Wykroty, 26.09.2023
Dyrektor Zakładu