



## DECLARATION OF PERFORMANCES

No BRI/FR/BRT50/2023\_04

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| <ol style="list-style-type: none"> <li>1. Unique identification code of the product type:<br/>BRI/FR/BRT50/2023_04</li> <li>2. Intended use or uses:<br/>Thermal insulation for buildings</li> <li>3. Manufacturer: Boerner Insulation sp. z o.o.<br/>ul. Wyzwolenia 55, Wykroty, 59-730 Nowogrodziec, Poland</li> </ol> | <ol style="list-style-type: none"> <li>4. System or systems of assessment and verification of constancy of performance: AVCP 1 and 3</li> <li>5. Harmonised standard: EN 13162:2012+A1:2015</li> <li>6. Notified certification body or bodies: Nr 1454<br/>Sieć Badawcza Łukasiewicz – Warszawski Instytut Technologiczny</li> <li>7. Declared performances: Table 1</li> </ol> |
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Table 1

DECLARED PERFORMANCES				
Essential characteristics	Requirement clauses in the European standard	Symbol	Unit	Declared level and/or classes / NPD <sup>1)</sup>
Thermal Resistance	Thermal conductivity	$\lambda_D$	W/mK	0,039
	Thermal resistance	$R_D$	m <sup>2</sup> K/W	Table 2
	Thickness	Class of tolerance	mm	T5
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance	$R_D$	m <sup>2</sup> K/W	Table 2
	Thermal conductivity	$\lambda_D$	W/mK	0,039
	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 <sup>2</sup>	≤1
	Long time water absorption	WL(P)	kg/m <sup>2</sup>	≤3
Water vapour permeability	Water vapour transition	MU	-	1
Compressive strength	Compressive stress or compressive strength	CS(10)	kPa	50
	Point load <50mm	PL(5)	N	550
	Point load ≥50mm	PL(5)	N	650
Tensile strength	Tensile strength perpendicular to the faces	TR	kPa	15
Durability of compressive strength against ageing/degradation	Compressive creep	CC(i1/i2/y) $\sigma_c$	mm	NPD
Impact noise transition index	Dynamic stiffness	$d_N$	mm	NPD
		SD	MN/m <sup>3</sup>	NPD
	Thickness	$d_L$	Mm	NPD
	Compressibility	C	mm	NPD
	Air flow resistivity	$d_N$	mm	NPD
AFr		kPa·s/m <sup>2</sup>	NPD	
Direct airborne sound insulation index	Air flow resistivity	$d_N$	mm	NPD
		AFr	kPa·s/m <sup>2</sup>	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 <sup>2</sup> K/W]	-	0,50	0,75	1,00	1,25	1,50	1,75	2,05	2,30	2,55	2,80	3,05	3,30	3,55	3,80
Thickness[mm]	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
$R_D$ [m <sup>2</sup> K/W]	4,10	4,35	4,60	4,85	5,10	-	-	-	-	-	-	-	-	-	-

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**

Wykroty, 28.09.2023

Dyrektor Zakładu