



## DECLARATION OF PERFORMANCES

No TNI/FR/TRT80/2022\_10

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Unique identification code of the product type:<br/>TNI/FR/TRT80/2022_10</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> |
|--|---|

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	80
	Point load	PL(5)	N	600
Tensile strength	Tensile strength perpendicular to the faces	TR	kPa	15
Durability of compressive strength against ageing/degradation	Compressive creep	CC(11/i2/γ)σ <sub>c</sub>	mm	NPD
Impact noise transition index	Dynamic stiffness	d <sub>N</sub>	mm	NPD
		SD	MN/m <sup>3</sup>	NPD
	Thickness	d <sub>L</sub>	Mm	NPD
	Compressibility	C	mm	NPD
	Air flow resistivity	d <sub>N</sub>	mm	NPD
AFr		kPa·s/m <sup>2</sup>	NPD	
Direct airborne sound insulation index	Air flow resistivity	d <sub>N</sub>	mm	NPD
		AFr	kPa·s/m <sup>2</sup>	NPD
Sound absorption index	Sound absorption	A <sub>p</sub> , A <sub>w</sub>	-	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 <sub>D</sub> [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 <sub>D</sub> [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.**  
59-730 Wykroty, ul. Wyzwolenia 55  
REGON:383112788, NIP:6121867729

Piotr Bonarski

*Piotr Bonarski*

Dyrektor Zakładu

Wykroty, 26.09.2023