TECHNOROOF SOLO 50

BOERNER INSULATION

DECLARATION OF PERFORMANCES

No TNI/FR/TRS50/2021_05

1. Unique identification code of the product type: TNI/FR/TRS50/2021_05
2. Intended use or uses: Thermal insulation for buildings
3. Manufacturer: Boerner Insulation sp. z o.o. ul. Wyzwolenia 55, Wykroty, 59-730 Nowogrodziec, Poland
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

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	0,039
	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	0,039
	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^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	50
	Point load	PL(5)	N	450
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
		AFr	$kPa \cdot s/m^2$	NPD
Direct airborne sound insulation index	Air flow resistivity	d_N	mm	NPD
		AFr	$kPa \cdot s/m^2$	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^2K/W]	-	-	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^2K/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
Dyrektor Zakładu

Wykroty, 26.09.2023

www.boernerinsulation.pl