

Declaration of Performance

Declaration of performance number 120216065C

1. Unique identification code of the product-type	BauderGLAS Roof Block G1 T3+ DOP n° 120216065B 2022/01/01-THIB-CG-EN13167-PL(P)1,5-DS(70,90)-CS(Y)500-BS450-TR150-WS-WL(P)-Mu
2. Identification of the construction product as required under Art. 11(4)	Cellular glass – TAPERED ROOF BLOCK T3+
3. Intended use or uses of the construction product	Thermal insulation for buildings
4. Name and contact address of the manufacturer as required pursuant Art. 11(5)	Bauder Limited 70 Landseer Road Ipswich IP3 0DH
5. Name of the authorised representative whose mandate covers the tasks specified in Art. 12(2)	none
6. System or systems AVCP as set out in Annex V	AVCP system 3
Harmonised standard	EN 13167
7. Notified body	Thermal conductivity - BBRI (No. 1136) & FIW (No. 751) / Fire reaction - WFGR (No. 1173) / Compressive strength - BBRI (No. 1136)

8. Table 1

Essential characteristics	Performance	
	Thermal resistance (RD-value)	RD-value see table 2
Thermal resistance	Thermal conductivity (λ D-value)	$\lambda D \leq 0.036 \text{ W/(m}\cdot\text{K)}$
	Thickness	from 50 to 200 mm
	Reaction to fire Euroclass characteristics	Reaction to fire
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance (RD-value)	RD-value see table 2
	Thermal conductivity (λ D-value)	$\lambda D \leq 0.036 \text{ W/(m}\cdot\text{K)}$
	Durability characteristics	Thermal conductivity of cellular glass products does not change with time, experience has shown the cell structure to be stable.
	Dimensional Stability	DS (70/90)
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability characteristics	The fire performance of cellular glass does not deteriorate with time.
	Dimensional Stability	DS (70/90)
Compressive strength	Compressive strength	CS $\geq 500 \text{ kPa}$
	Point load	PL $\leq 1,5 \text{ mm}$
Tensile/flexural strength	Bending Strength	BS $\geq 400 \text{ kPa}$
	Tensile strength parallel to faces	NPD
	Tensile strength perpendicular to faces	TR $\geq 150 \text{ kPa}$
Durability of compressive strength against aging degradation	Compressive creep	CC(1,5/1/50)225
Water permeability	Water absorption (short)	WS
	Water absorption (long)	WL(P)
Water vapour permeability	Water vapour resistance	∞ infinite
Acoustic absorption index	Sound absorption	AP1 \rightarrow NPD
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD
Continuous glowing combustion	Continuous glowing combustion	no glowing combustion

EN 13167:2012 + A1:2015

Table 2

Thickness (mm)	Thermal resistance ($\text{m}^2\text{K} / \text{W}$)	Thickness (mm)	Thermal resistance ($\text{m}^2\text{K} / \text{W}$)
50	1,35	135	3,75
55	1,50	140	3,85
60	1,65	145	4,00
65	1,80	150	4,15
70	1,90	155	4,30
75	2,05	160	4,40
80	2,20	165	4,55
85	2,35	170	4,70
90	2,50	175	4,85
95	2,60	180	5,00
100	2,75	185	5,10
105	2,90	190	5,25
110	3,05	195	5,40
115	3,15	200	5,55
120	3,30		
125	3,45		
130	3,60		

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

On behalf of the manufacturer by:
Richard Clennell - Bituminous & Insulation Product Manager

Date of Issue:
18th June 2024