



FOAMGLAS® S3

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FOAMGLAS® S3

Form of delivery (content per package)

length x width [mm]	600 x 450									
thickness [mm]	40	50	60	70	80	90	100	110	120	
units	12	10	8	7	6	6	5	5	4	
square metre [m ²]	3.24	2.70	2.16	1.89	1.62	1.62	1.35	1.35	1.08	

length x width [mm]	600 x 450								
thickness [mm]	130	140	150	160	170	180	190	200	
units	4	4	3	3	3	3	3	3	
square metre [m ²]	1.08	1.08	0.81	0.81	0.81	0.81	0.81	0.81	

Other dimensions and thicknesses are available on request.

General FOAMGLAS® Cellular Glass Insulation characteristics

Description	: FOAMGLAS® Insulation is manufactured from specially graded recycled glass* and natural raw materials which are available in abundant supply (sand, dolomite, lime...). The insulation is totally inorganic, contains no ozone depleting propellants, flame resistant additives or binders. Without VOC or other volatile substances.
Reaction to fire (EN 13501-1)	: Material complying with Euroclass A1, non-combustible, no toxic fumes
Service temperature limits	: from -265°C to +430°C
Water vapour resistance (EN ISO 10456)	: $\mu = \infty$
Hygroscopicity	: zero
Capillarity	: zero
Melting point (cf DIN 4102-17)	: >1000 °C
Thermal expansion coefficient (EN 13471)	: $9 \times 10^{-6} \text{ K}^{-1}$
Specific heat (EN ISO 10456)	: 1000 J/(kg·K)

FOAMGLAS® characteristics





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Page: 2

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1. Product characteristics according to EN 13167¹⁾

Density ($\pm 10\%$) (EN 1602)	: 130 kg/m ³
Thickness (EN 823) ± 2 mm	: from 40 up to 200 mm
Length (EN 822) ± 2 mm	: 600 mm
Width (EN 822) ± 2 mm	: 450 mm
Thermal conductivity (EN ISO 10456)	: $\lambda_D \leq 0.045$ W/(m·K)
Reaction to fire (EN 13501-1)	: Euroclass A1
Point load (EN 12430)	: PL ≤ 1.0 mm
Compressive strength (EN 826 annexe A)	: CS ≥ 900 kPa
Bending strength (EN 12089)	: BS ≥ 500 kPa
Tensile strength (EN 1607)	: TR ≥ 200 kPa

¹⁾ CE-marking ensures conformity with the mandatory essential requirements of CPD as mentioned in EN 13167; within the CEN Keymark certification all mentioned characteristics are certified by an empowered, notified and accredited 3rd party.

2. Additional product data

Thermal diffusivity at 0°C	: 4.1×10^{-7} m ² /sec
λ_D -value and mean t° range (EN ISO 13787)	: + 35 °C ≤ 0.049 W/(m·K)
Product Conformity BS EN 13167	: Nr. CL 07020029
BRE Green Guide Rating	: A
Natureplus certificate	: 0406-1101-101-1
Green Spec [®] Listed	: Yes
Environmental Product Declaration (ISO 14025 and EN 15804)	: EPD-PCE-20150042-IBA1-DE

3. Applications

High compressive strength requirements, insulation of:

- flat roofs (f.i. trafficable)
- floors

* recycled glass consists of highly selected postconsumer glass and highly selected production scrap/co-products.