



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
R _D [m²K/W]	0.90	1.10	1.30	1.60	1.80	2.00	2.20	2.40	2.70
units	12	10	8	7	6	6	5	5	4
square metre [m²]	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	
R _D [m²K/W]	2.90	3.10	3.30	3.60	3.80	4.00	4.20	4.40	
units	4	4	3	3	3	3	3	3	
square metre [m²]	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 from -265°C to +430°C
Service temperature limits	: $\mu = \infty$
Water vapour resistance (EN ISO 10456)	: zero
Hygroscopicity	: zero
Capillarity	:
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

Time-tested thermal performance	Waterproof	Resistant to attack	High compressive strength	Acid resistant / chemical resistant
Non-combustible	Impervious to water vapour	Dimensionally stable	Ecological	Radon protection



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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 characteristics

Thermal diffusivity at 0°C	: 4.1×10^{-7} m ² /sec
Flexural modulus of elasticity E	: 1200 MN/m ²
BRE Green Guide Rating	: A
Certificate natureplus	: 0406-1101-101-1
NBS plus	: yes
RIBA - CPD Assessed Material	: yes
Green Spec [®] Listed	: yes

3. Applications

High compressive strength requirements, insulation of:

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

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