



FOAMGLAS® BOARD S3

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Date: 01.08.2021

Supersedes: 01.01.2021

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FOAMGLAS® BOARD S3 consists of FOAMGLAS® slabs bonded together. The upper side of the insulation board is lined with a PE/Glass Fleece Composite, the bottom with Glass Fleece; the top side is yellow, the bottom side is white.

Form of delivery (content per package)

length x width [mm]	1200 x 600									
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	2.60	
units	6	5	4	4	3	3	3	2	2	
square metre [m²]	4.32	3.60	2.88	2.88	2.16	2.16	2.16	1.44	1.44	

length x width [mm]	1200 x 600								
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	2	2	2	2	14*	14*	12*	12*	
square metre [m²]	1.44	1.44	1.44	1.44	10.08	10.08	8.64	8.64	

Other dimensions and thicknesses are available on request.

* No single package, but all boards on a pallet.

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) : Core 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 :



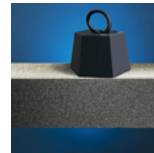
Time-tested thermal performance



Waterproof



Resistant to attack



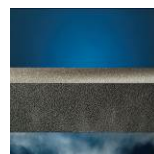
High compressive strength



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 13167 ¹⁾

Density ($\pm 10\%$) (EN 1602)	: 130 kg/m ³
Thickness (EN 823) ± 2 mm	: from 40 up to 200 mm
Length (EN 822) ± 5 mm	: 1200 mm
Width (EN 822) ± 2 mm	: 600 mm
Thermal conductivity (EN ISO 10456)	: $\lambda_D \leq 0.045$ W/(m·K)
Reaction to fire (EN 13501-1)	: Euroclass E (Core material 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	: $4,1 \times 10^{-7}$ m ² /sec
Flexural modulus of elasticity E	: 1200 MN/m ²
BRE Green Guide Rating	: A
NBS plus	: yes
RIBA - CPD Assessed Material	: yes

3. Applications

High compressive strength requirements, insulation of:

- floors
- foundation slabs