FOAMGLAS® BOARD S3

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)

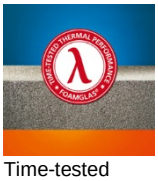
length x width [mm]	1200 x 600								
thickness [mm]	40	50	60	70	80	90	100	110	120
R_D [m^2K/W]	0.90	1.10	1.30	1.60	1.80	2.00	2.20	2.40	2.60
units	6	5	4	4	3	3	3	2	2
square metre [m^2]	4.32	3.60	2.88	2.88	2.16	2.16	2.16	1.44	1.44

length x width [mm]	1200 x 600								
thickness [mm]	130	140	150	160	170	180	190	200	
R_D [m^2K/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 [m^2]	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.

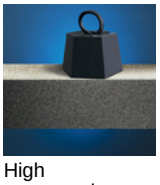
General FOAMGLAS® Cellular Glass Insulation characteristics

Description	:	FOAMGLAS® Insulation is manufactured from specially graded recycled glass (≥ 60%) 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)	:	μ = ∞
Hygroscopicity	:	zero
Capillarity	:	zero
Melting point (cf DIN 4102-17)	:	>1000 C°
Thermal expansion coefficient (EN 13471)	:	9 x 10^{-6} K^{-1}
Specific heat (EN ISO 10456)	:	1000 J/(kg·K)
FOAMGLAS® characteristics	:	


Time-tested thermal performance

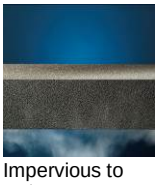

Waterproof

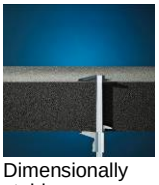

Resistant to attack


High compressive strength


Acid resistant / chemical resistant


Non-combustible


Impervious to water vapour


Dimensionally stable


Ecological


Radon protection

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FOAMGLAS® BOARD S3

1. Product characteristics according to EN 13167 [1)]

Density (± 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 x 10^{-7} m^2/sec
BRE Green Guide Rating	: A

3. Applications

High compressive strength requirements, insulation of:
- floors
- foundation slabs

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