



FOAMGLAS® BOARD T4+

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FOAMGLAS® BOARD T4+ consists of FOAMGLAS® slabs bonded together. The upper side is covered with a PE/Glass Fleece Composite, the bottom with Glass Fleece; the top side is green, 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]	0.95	1.20	1.45	1.70	1.95	2.20	2.40	2.65	2.90	
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
R _D [m²K/W]	3.15	3.40	3.65	3.90	4.15	4.35	4.60	4.85
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

<p>Description</p> <p>Reaction to fire (EN 13501-1)</p> <p>Service temperature limits</p> <p>Water vapour resistance (EN ISO 10456)</p> <p>Hygroscopicity</p> <p>Capillarity</p> <p>Melting point (cf DIN 4102-17)</p> <p>Thermal expansion coefficient (EN 13471)</p> <p>Specific heat (EN ISO 10456)</p> <p>FOAMGLAS® characteristics</p>	<p>: 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.</p> <p>: Core material complying with Euroclass A1, non-combustible, no toxic fumes</p> <p>: from -265°C to +430°C</p> <p>: $\mu = \infty$</p> <p>: zero</p> <p>: zero</p> <p>: >1000 C°</p> <p>: $9 \times 10^{-6} \text{ K}^{-1}$</p> <p>: 1000 J/(kg·K)</p>
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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⁾ and ETA17/0903 ²⁾

Density ($\pm 15\%$) (EN 1602)	: 115 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)	: $\lambda_D \leq 0.041$ W/(m·K)
Reaction to fire (EN 13501-1)	: Euroclass E (Core material Euroclass A1)
Point load (EN 12430)	: PL ≤ 1.5 mm
Compressive strength (EN 826 annexe A)	: CS ≥ 600 kPa
Characteristic value of compressive stress (ISO 12491:1997) ³	: $\sigma_{0,05} = 633$ KPa (n=50, $\sigma_{\text{mean}} = 750$ kPa, $s_0 = 55$ kPa)
Bending strength (EN 12089)	: BS ≥ 450 kPa
Tensile strength (EN 1607)	: TR ≥ 150 kPa
Compressive creep (EN 1606)	: CC (1,5/1/50) 225

- 1) CE-marking ensures conformity with the mandatory essential requirements of CPR as mentioned in EN 13167; within the CEN Keymark certification all mentioned characteristics are certified by an empowered, notified and accredited 3rd party.
- 2) ETA-17/0903 in reference to EAD no. 040777-00-1201 for the intended use cellular glass boards as load bearing layer and thermal insulation outside the waterproofing.
- 3) Characteristic value of compressive stress or compressive strength, 5%-fractile value for a one-sided confidence level of 75 % under unknown or known variance using ISO 12491:1997.

2. Additional product characteristics

Thermal diffusivity at 0°C	: 4.2×10^{-7} m ² /sec
Flexural modulus of elasticity E	: 700 MN/m ²
BRE Green Guide Rating	: A
NBS plus	: yes
RIBA - CPD Assessed Material	: yes

3. Applications

Insulation for:

- floors (incl. below ground structures)
- façades (cavity wall insulation, f.i. between 2 concrete shells)
- Interior and exterior walls above and below ground
- Interior and exterior soffits