



FOAMGLAS®

PRODUCT DATA SHEET

FOAMGLAS® T4+

FOAMGLAS® T4+ slab is a high performance and long-lasting cellular glass insulation material for the entire building envelope. It is a lightweight, rigid and durable insulation, composed of millions of completely sealed glass cells.



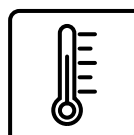
Product features



impermeable



non-combustible



thermal performance



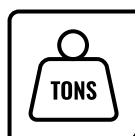
dimensionally stable



pest-proof



vapour-tight



high compressive
strength



durable



resistant to acid



resistant to radon gas

Applications

Insulation for:

- flat and pitched roofing systems including concrete, timber and metal substrates
- external walls and cavity insulation
- internal insulation including floors, walls and soffits
- below ground and perimeter insulation

Dimensions

Length x width (mm)	600 x 450								
Thickness (mm)	40	50	60	70	80	90	100	110	120
R_D (m ² K/W)	0.95	1.20	1.45	1.70	1.95	2.20	2.40	2.65	2.90

Length x width (mm)	600 x 450								
Thickness (mm)	130	140	150	160	170	180	190	200	
R_D (m ² K/W)	3.15	3.40	3.65	3.90	4.15	4.35	4.60	4.85	

Product characteristics conforming to EN 13167 and ETA-17/0903

Density (EN 1602) $\pm 15\%$	110 kg/m ³
Thickness (EN 823) ± 2 mm	40 - 200 mm
Length (EN 822) ± 2 mm	600 mm
Width (EN 822) ± 2 mm	450 mm
Thermal conductivity (EN ISO 10456)	$\lambda_D \leq 0.041$ W/(m·K)
Reaction to fire (EN 13501-1)	Euroclass A1
Point load (EN 12430)	≤ 1.5 mm
Compressive strength (EN 826 annexe A)	≥ 600 kPa
Characteristic value of compressive stress (ISO 12491:1997) ¹⁾	$\sigma_{0.05} = 633$ KPa ($n=50$, $\sigma_{\text{mean}} = 750$ kPa, $s_0 = 55$ kPa)
Compressive creep (EN 1606)	(1.5/1/50) 225
Bending strength (EN 12089)	≥ 450 kPa
Tensile strength (EN 1607)	≥ 150 kPa

1) 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.

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

Certificates

Keymark certificate	Environmental Product Declaration
natureplus® certificate	FM approved

General FOAMGLAS® characteristics

FOAMGLAS® insulation is made of recycled glass and natural raw materials which are available in abundant supply (sand, dolomite, lime, etc.). The insulation is inorganic, contains no ozone depleting propellants, flame resistant additives, binders, Volatile Organic Compounds (VOC's) or other volatile substances.

Water vapour resistance (EN ISO 10456)	$\mu = \infty$
Hygroscopicity (EN ISO 12571)	zero
Capillarity (EN 1015-18)	zero
Thermal expansion coefficient (EN 13471)	9×10^{-6} K ⁻¹
Specific heat (EN ISO 10456)	1000 J/(kg·K)

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