

FOAMGLAS® TAPERED S3

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Date: 01.08.2021

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www.foamglas.com



FOAMGLAS® TAPERED S3 consists of FOAMGLAS® S3 slabs which are tapered across their width, or sometimes their length. A central arrow stamped onto the top surface indicates the direction of fall.

Form of delivery

length x width [mm]	600 x 450							
average thickness [mm]	60	70	80	90	100	110	120	130
length x width [mm]	600 x 450							
average thickness [mm]	140	150	160	170	180	190	200	

Standard angles of inclination:

1.1%, 1.3%, 1.7%, 2.0%, 2.8%, 3.0%, 3.3%, 4.0%, 4.4%, 5.0%, 5.6%, 6.7%.

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

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 (± 10%) (EN 1602)	: 130 kg/m ³
Thickness, average (EN 823) ± 2 mm	: from 60 to 200 mm
Length (EN 822) ± 2 mm	: 600 mm
Width (EN 822) ± 2 mm	: 450 mm
Thermal conductivity (EN ISO 10456)	: $\lambda_D \leq 0,045 \text{ W}/(\text{m}\cdot\text{K})$
Reaction to fire (EN 13501-1)	: Euroclass A1
Point load (EN 12430)	: $PL \leq 1,0 \text{ mm}$
Compressive strength (EN 826 annexe A)	: $CS \geq 900 \text{ kPa}$
Bending strength (EN 12089)	: $BS \geq 500 \text{ kPa}$
Tensile strength (EN 1607)	: $TR \geq 200 \text{ kPa}$

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 data

Thermal diffusivity at 0°C	: $4.1 \times 10^{-7} \text{ m}^2/\text{sec}$
Product Conformity	: BS EN 13167 : 2001
BRE Green Guide Rating	: A
Natureplus certificate	: 0406-1101-101-1
Green Spec [®] Listed	: yes

3. Application area

TAPERED ROOF SYSTEM, cut-to-falls insulation system for high compressive strength requirements:

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

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