

## FOAMGLAS® T4+

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Date: 01.03.2013

Supersedes: 26/06/10

www.foamglas.com



## FOAMGLAS® T4+

## Form of delivery (content per package)

length x width [mm]	600 x 450							
thickness [mm]	40	50	60	70	80	90	100	110
units	12	10	8	7	6	6	5	5
square metre [m <sup>2</sup> ]	3.24	2.70	2.16	1.89	1.62	1.62	1.35	1.35

length x width [mm]	600 x 450							
thickness [mm]	120	130	140	150	160	170	180	
units	4	4	4	3	3	3	3	
square metre [m <sup>2</sup> ]	1.08	1.08	1.08	0.81	0.81	0.81	0.81	

Other dimensions and thicknesses are available on request.

## General FOAMGLAS® Cellular Glass Insulation characteristics

## Description

: FOAMGLAS® Insulation is manufactured from specially graded recycled glass ( $\geq 60\%$ ) 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)

: Material complying with Euroclass A1, non-combustible, no toxic fumes

Service temperature limits

: from  $-265^{\circ}\text{C}$  to  $+430^{\circ}\text{C}$ 

Water vapour resistance (EN ISO 10456)

:  $\mu = \infty$ 

Hygroscopicity

: zero

Capillarity

: zero

Melting point (cf DIN 4102-17)

:  $>1000^{\circ}\text{C}$ 

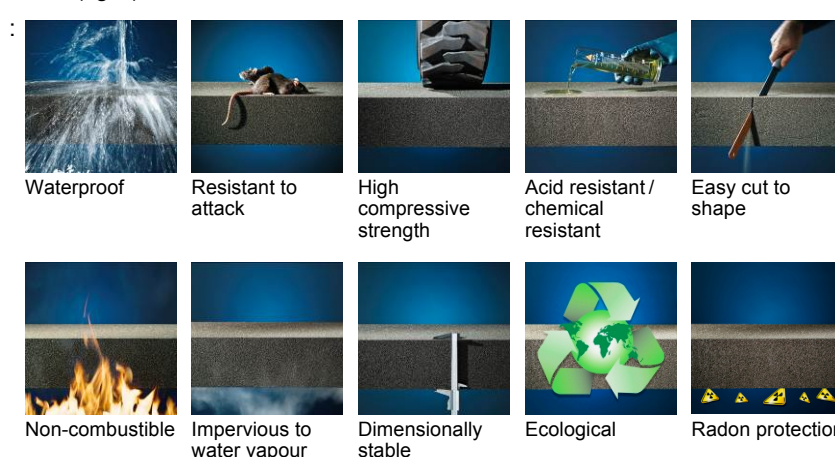
Thermal expansion coefficient (EN 13471)

:  $9 \times 10^{-6} \text{ K}^{-1}$ 

Specific heat (EN ISO 10456)

:  $1 \text{ kJ}/(\text{kg} \cdot \text{K})$ 

## FOAMGLAS® characteristics





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## 1. Product characteristics according to EN 13167 <sup>1)</sup>

Density ( $\pm 10\%$ ) (EN 1602)	: 115 kg/m <sup>3</sup>
Thickness (EN 823) $\pm 2$ mm	: from 40 to 180 mm
Length (EN 822) $\pm 2$ mm	: 600 mm (half slabs 300 mm available)
Width (EN 822) $\pm 2$ 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)	: PL $\leq 1.5$ mm
Compressive strength (EN 826 annexe A)	: CS $\geq 600$ kPa
Bending strength (EN 12089)	: BS $\geq 450$ kPa
Tensile strength (EN 1607)	: TR $\geq 150$ kPa

<sup>1)</sup> 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 3<sup>rd</sup> party.

## 2. Additional product characteristics

Thermal diffusivity at 0°C	: $4.2 \times 10^{-7}$ m <sup>2</sup> /sec
BRE Green Guide Rating	: A
Natureplus certificate	: 0406-1101-101-1

## 3. Applications

- Insulation of:
- flat roofs
  - façades
  - belowgrade floors and walls
  - metal and special roofs
  - interior insulation (walls, floors, ceilings)