



# FOAMGLAS® T4+

Page: 1      Date: 12.03.2018      Supersedes: 03.07.2017      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	120	
R <sub>D</sub> [m²K/W]	0.95	1.20	1.45	1.70	1.95	2.20	2.40	2.65	2.90	
units	12	10	8	7	6	6	5	5	4	
square metre [m²]	3.24	2.70	2.16	1.89	1.62	1.62	1.35	1.35	1.08	

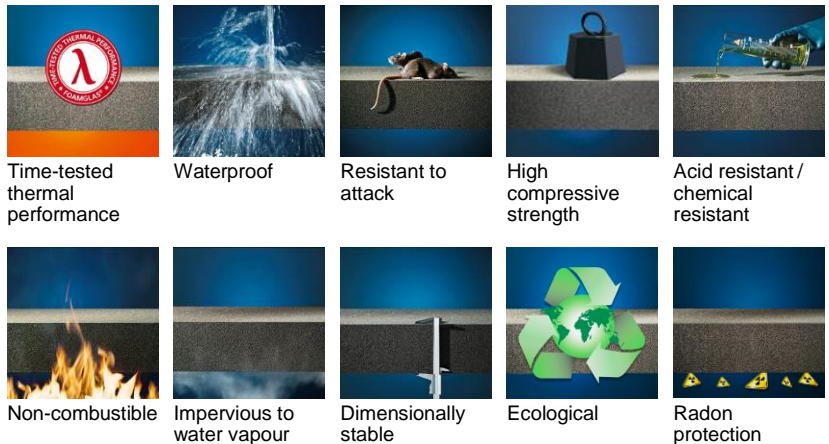
  

length x width [mm]	600 x 450									
thickness [mm]	130	140	150	160	170	180	190	200		
R <sub>D</sub> [m²K/W]	3.15	3.40	3.65	3.90	4.15	4.35	4.60	4.85		
units	4	4	3	3	3	3	3	3		
square metre [m²]	1.08	1.08	0.81	0.81	0.81	0.81	0.81	0.81		

Other dimensions and thicknesses are available on request.

### General FOAMGLAS® Cellular Glass Insulation characteristics

- Description : FOAMGLAS® Insulation is manufactured from specially graded recycled glass (≥ 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°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 :





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Page: 2      Date: 12.03.2018      Supersedes: 03.07.2017      www.foamglas.com

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

Density (± 10%) (EN 1602)	: 115 kg/m <sup>3</sup>
Thickness (EN 823) ± 2 mm	: from 40 to 200 mm
Length (EN 822) ± 2 mm	: 600 mm (half slabs 300 mm available)
Width (EN 822) ± 2 mm	: 450 mm
Thermal conductivity (EN ISO 10456)	: $\lambda_D \leq 0.041 \text{ W/(m}\cdot\text{K)}$
Reaction to fire (EN 13501-1)	: Euroclass A1
Point load (EN 12430)	: $PL \leq 1.5 \text{ mm}$
Compressive strength (EN 826 annexe A)	: $CS \geq 600 \text{ kPa}$
Bending strength (EN 12089)	: $BS \geq 450 \text{ kPa}$
Tensile strength (EN 1607)	: $TR \geq 150 \text{ kPa}$

<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	: $4.2 \times 10^{-7} \text{ m}^2/\text{sec}$
Flexural modulus of elasticity E	: $700 \text{ MN/m}^2$
BRE Green Guide Rating	: A
Certificate natureplus	: 0406-1101-101-1
NBS plus	: yes
RIBA - CPD Assessed Material	: yes
Green Spec® Listed	: yes

## 3. Applications

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

\*  $\geq 60\%$  recycled glass consists of highly selected postconsumer glass and highly selected production scrap/co-products.