



# FOAMGLAS® F

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## FOAMGLAS® F

### Form of delivery (content per package)

length x width [mm]	600 x 450							
thickness [mm]	40	50	60	70	80	90	100	110
R <sub>D</sub> [m²K/W]	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20
units	12	10	8	7	6	6	5	5
square metre [m²]	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	
R <sub>D</sub> [m²K/W]	2.40	2.60	2.80	3.00	3.20	3.40	3.60	
units	4	4	4	3	3	3	3	
square metre [m²]	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\* 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 <sup>1)</sup>

Density (± 10%) (EN 1602)	: 165 kg/m <sup>3</sup>
Thickness (EN 823) ± 2 mm	: from 40 up to 180 mm
Length (EN 822) ± 2 mm	: 600 mm
Width (EN 822) ± 2 mm	: 450 mm
Thermal conductivity (EN ISO 10456)	: $\lambda_D \leq 0.050$ W/(m·K)
Reaction to fire (EN 13501-1)	: Euroclass A1
Point load (EN 12430)	: PL $\leq$ 1.0 mm
Compressive strength (EN 826 annexe A)	: CS $\geq$ 1600 kPa
Bending strength (EN 12089)	: BS $\geq$ 550 kPa
Tensile strength (EN 1607)	: TR $\geq$ 200 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	: $3.5 \times 10^{-7}$ m <sup>2</sup> /sec
Flexural modulus of elasticity E	: 1500 MN/m <sup>2</sup>
Certificate natureplus	: 0406-1101-101-1
NBS plus	: yes
RIBA - CPD Assessed Material	: yes
Green Spec® Listed	: yes

## 3. Applications

- Flat and Tapered roofs and
- Internal floors, which require insulation with the highest compressive strength.
- foundation slabs

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