



# 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
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\* 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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**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)	: $\lambda_D \leq 0.050 \text{ W/(m}\cdot\text{K)}$
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 $\geq 1600 \text{ kPa}$
Bending strength (EN 12089)	: BS $\geq 550 \text{ kPa}$
Tensile strength (EN 1607)	: TR $\geq 200 \text{ kPa}$

<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 data**

Thermal diffusivity at 0°C	: $3.5 \times 10^{-7} \text{ m}^2/\text{sec}$
$\lambda_D$ -value and mean t° range (EN ISO 13787)	: $+ 35 \text{ °C} \leq 0.054 \text{ W/(m}\cdot\text{K)}$
Product Conformity BS EN 13167	: Nr. CL 07020029
BRE Green Guide Rating	: B
Natureplus certificate	: 0406-1101-101-1
Green Spec <sup>®</sup> Listed	: Yes
Environmental Product Declaration (ISO 14025 and EN 15804)	: EPD-PCE-20150042-IBA1-DE

**3. Applications**

Highest compressive strength requirements, insulation of:

- flat roofs (f.i. trafficable decks, parking decks)
- floors

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