



# FOAMGLAS® ONE

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Supersedes: 01.10.12

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## FOAMGLAS® ONE

### 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

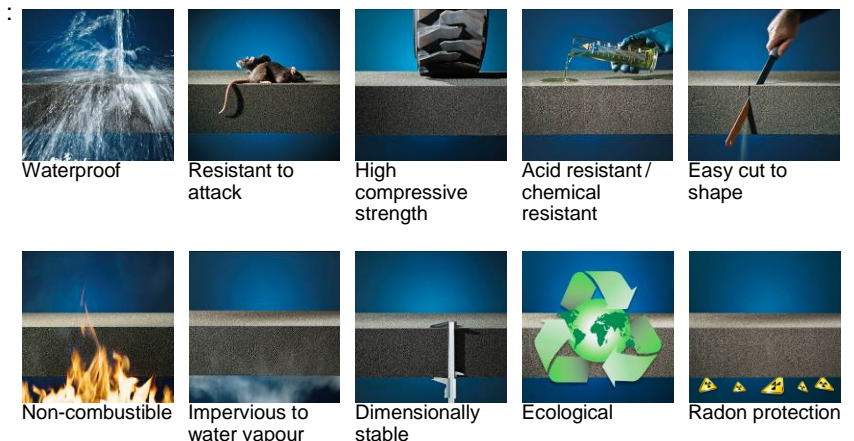
length x width [mm]	600 x 450							
thickness [mm]	120	130	140	150	160	170	180	
units	4	4	4	3	3	3	3	
square metre [m <sup>2</sup> ]	1.08	1.08	1.08	0.81	0.81	0.81	0.81	

Other dimensions and thicknesses are available on request.

## General FOAMGLAS® Cellular Glass Insulation characteristics

- Description : FOAMGLAS® Insulation is manufactured from specially graded recycled glass (≥ 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
- Specific heat (EN ISO 10456) : 1000 J/(kg·K)

### FOAMGLAS® characteristics



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## 1. Product characteristics according to EN 14305 <sup>1)</sup>

	INDUSTRY: EN 14305 <sup>1)</sup>	FOAMGLAS Industry
Intended use:	Thermal insulation for building equipment & industrial installations Service temperature range: between -265 °C and +430°C	
Density (± 10%) (EN 1602)	115 kg/m <sup>3</sup>	
Thickness (EN 823) ± 2 mm	from 40 to 180 mm	
Length (EN 822) ± 2 mm	600 mm (half slabs 300 mm)	
Squareness (EN 824)	± 2 mm	
Flatness (EN 825)	± 2 mm	
Width (EN 822) ± 2 mm	450 mm	
Thermal conductivity	λ <sub>D</sub> -value and mean t° range (EN ISO 13787)	
	-160 °C	≤ 0.021 W/(m/K)
	-120 °C	≤ 0.025 W/(m/K)
	- 80 °C	≤ 0.029 W/(m/K)
	- 40 °C	≤ 0.034 W/(m/K)
	+ 0 °C	≤ 0.040 W/(m/K)
	+ 10 °C	≤ 0.041 W/(m/K)
	+ 40 °C	≤ 0.046 W/(m/K)
	+ 100 °C	≤ 0.057 W/(m/K)
	+ 160 °C	≤ 0.070 W/(m/K)
+ 220 °C	≤ 0.085 W/(m/K)	
Reaction to fire (EN 13501-1)	Euroclass A1	
Point load (EN 12430)	PL ≤ 1.5 mm	
Compressive strength (EN 826 annexe A)	CS ≥ 600 kPa	
Bending strength (EN 12089)	BS ≥ 450 kPa	
Compressive Creep (EN 1606)	CC (1.5/1/50) ≥ 225 kPa	
Tensile strength (EN 1607)	TR ≥ 150 kPa	
Trace quantities of water soluble chloride (EN 13468)	CL ≤ 2 mg/kg	
Water vapour resistance (EN ISO 10456)	μ = ∞	

<sup>1)</sup> CE-marking ensures conformity with the mandatory essential requirements of CPD as mentioned in EN 14305; 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 expansion coefficient (EN 13471):

- Above ambient temperatures 9.0 x 10<sup>-6</sup> K<sup>-1</sup>
- Cryogenic temperatures 6.6 x 10<sup>-6</sup> K<sup>-1</sup>