



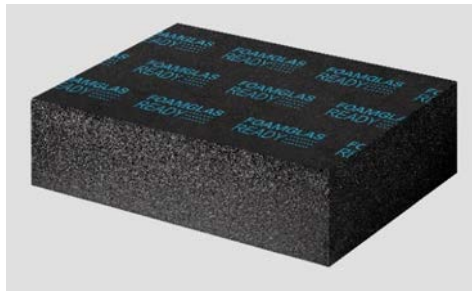
# FOAMGLAS® READY S3

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FOAMGLAS® READY S3 consists of a FOAMGLAS® S3 slab.

The upper surface is covered with a PE foil. It allows for direct torch-on of waterproofing sheets.

**Form of delivery (content per pallet)**

length x width [mm]	600 x 450									
thickness [mm]	40	50	60	70	80	90	100	110	120	
R <sub>D</sub> [m²K/W]	0.90	1.10	1.30	1.60	1.80	2.00	2.20	2.40	2.60	
units	120	96	80	68	60	52	48	40	40	
square metre [m²]	32.40	25.92	21.60	18.36	16.20	14.04	12.96	10.80	10.80	

length x width [mm]	600 x 450								
thickness [mm]	130	140	150	160	170	180	190	200	
R <sub>D</sub> [m²K/W]	2.90	3.10	3.30	3.60	3.80	4.00	4.20	4.40	
units	36	32	32	28	28	24	24	24	
square metre [m²]	9.72	8.64	8.64	7.56	7.56	6.48	6.48	6.48	

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) : Core 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 ( $\pm 10\%$ ) (EN 1602)	: 130 kg/m <sup>3</sup>
Thickness (EN 823) $\pm 2$ mm	: from 40 up to 200 mm
Length (EN 822) $\pm 2$ mm	: 600 mm
Width (EN 822) $\pm 2$ mm	: 450 mm
Thermal conductivity (EN ISO 10456)	: $\lambda_D \leq 0.045$ W/(m·K)
Reaction to fire (EN 13501-1)	: Euroclass E (Core material Euroclass A1)
Point load (EN 12430)	: PL $\leq 1.0$ mm
Compressive strength (EN 826 annexe A)	: CS $\geq 900$ kPa
Bending strength (EN 12089)	: BS $\geq 500$ 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	: $4,1 \times 10^{-7}$ m <sup>2</sup> /sec
Flexural modulus of elasticity E	: 1200 MN/m <sup>2</sup>
BRE Green Guide Rating	: A
NBS plus	: yes
RIBA - CPD Assessed Material	: yes

## 3. Applications

Insulation system allowing for torch-on roofing with high compressive strength requirements:

- flat roofs (cold bonding on concrete using PC® 500)
- belowgrade walls (perimeter)