



# FOAMGLAS® BOARD S3

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Date: 01.08.2021

Supersedes: 01.01.2021

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FOAMGLAS® BOARD S3 consists of FOAMGLAS® slabs bonded together. The upper side of the insulation board is lined with a PE/Glass Fleece Composite, the bottom with Glass Fleece; the top side is yellow, the bottom side is white.

### Form of delivery (content per package)

| length x width [mm]    | 1200 x 600 |      |      |      |      |      |      |      |      |  |
|------------------------|------------|------|------|------|------|------|------|------|------|--|
| 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                  | 6          | 5    | 4    | 4    | 3    | 3    | 3    | 2    | 2    |  |
| square metre [m²]      | 4.32       | 3.60 | 2.88 | 2.88 | 2.16 | 2.16 | 2.16 | 1.44 | 1.44 |  |

| length x width [mm]    | 1200 x 600 |      |      |      |       |       |      |      |  |
|------------------------|------------|------|------|------|-------|-------|------|------|--|
| 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                  | 2          | 2    | 2    | 2    | 14*   | 14*   | 12*  | 12*  |  |
| square metre [m²]      | 1.44       | 1.44 | 1.44 | 1.44 | 10.08 | 10.08 | 8.64 | 8.64 |  |

Other dimensions and thicknesses are available on request.

\* No single package, but all boards on a pallet.

## General FOAMGLAS® Cellular Glass Insulation characteristics

|   |  |
|---|--|
| <p>Description</p> <p>Reaction to fire (EN 13501-1)</p> <p>Service temperature limits</p> <p>Water vapour resistance (EN ISO 10456)</p> <p>Hygroscopicity</p> <p>Capillarity</p> <p>Melting point (cf DIN 4102-17)</p> <p>Thermal expansion coefficient (EN 13471)</p> <p>Specific heat (EN ISO 10456)</p> <p>FOAMGLAS® characteristics</p> | <p>: 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.</p> <p>: Core material complying with Euroclass A1, non-combustible, no toxic fumes</p> <p>: from -265°C to +430°C</p> <p>: <math>\mu = \infty</math></p> <p>: zero</p> <p>: zero</p> <p>: &gt;1000 C°</p> <p>: <math>9 \times 10^{-6} \text{ K}^{-1}</math></p> <p>: 1000 J/(kg·K)</p> |
|---|--|



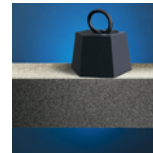
Time-tested thermal performance



Waterproof



Resistant to attack



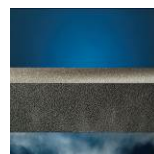
High compressive strength



Acid resistant / chemical resistant



Non-combustible



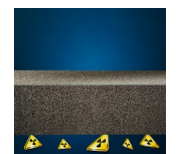
Impervious to water vapour



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) $\pm 5$ mm             | : 1200 mm                                  |
| Width (EN 822) $\pm 2$ mm              | : 600 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 |
| BRE Green Guide Rating     | : A  |

## 3. Applications

High compressive strength requirements, insulation of:

- floors
- foundation slabs