



FOAMGLAS®

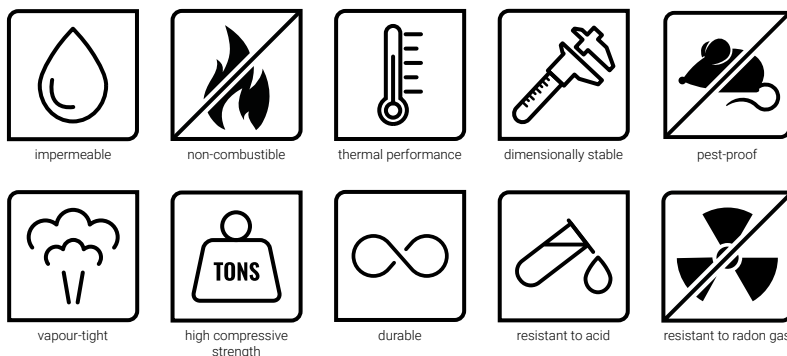
PRODUCT DATA SHEET

FOAMGLAS® F

FOAMGLAS® F slab is a high performance and long-lasting cellular glass insulation material. It offers insulation for areas with high load requirements. It is a lightweight, rigid and durable insulation, composed of millions of completely sealed glass cells. FOAMGLAS® F slab offers the highest compressive strength within our portfolio.



Product features



Applications

Insulation for high compressive strength requirements:

- flat roofing systems including concrete, timber and metal substrates
- heavy load roofs, including vehicle access and equipment plant
- internal floor insulation in industrial environments
- below ground and perimeter insulation
- foundation slabs

Dimensions

Length x width (mm)	600 x 450							
Thickness (mm)	40	50	60	70	80	90	100	110
R_D (m ² K/W)	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20

Length x width (mm)	600 x 450						
Thickness (mm)	120	130	140	150	160	170	180
R_D (m ² K/W)	2.40	2.60	2.80	3.00	3.20	3.40	3.60

Product characteristics conforming to EN 13167 and ETA-20/0221

Density (EN 1602) $\pm 10\%$	165 kg/m ³
Thickness (EN 823) ± 2 mm	40 - 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)	≤ 1.0 mm
Compressive strength (EN 826 annexe A)	≥ 1600 kPa
Characteristic value of compressive stress (ISO 12491:1997) ¹⁾	$\sigma_{0.05} = 1558$ KPa ($n=50$, $\sigma_{\text{mean}} = 1771$ kPa, $s_0 = 127$ kPa)
Compressive creep (EN 1606)	(1.5/1/50) 600
Bending strength (EN 12089)	≥ 550 kPa
Tensile strength (EN 1607)	≥ 200 kPa

1) Characteristic value of compressive stress or compressive strength, 5%-fractile value for a one-sided confidence level of 75% underunknown or known variance using ISO 12491:1997.

CE-marking ensures conformity with the mandatory essential requirements of CPR as mentioned in EN 13167; within the Keymark certification all mentioned characteristics are certified by an empowered, notified and accredited 3rd party. ETA-20/0221 in reference to EAD no. 040777-00-1201 for the intended use cellular glass boards as load bearing layer and thermal insulation outside the waterproofing.

Certificates

Keymark certificate	Environmental Product Declaration
natureplus® certificate	FM approved

General FOAMGLAS® characteristics

FOAMGLAS® insulation is made of recycled glass and natural raw materials which are available in abundant supply (sand, dolomite, lime, etc.). The insulation is inorganic, contains no ozone depleting propellants, flame resistant additives, binders, Volatile Organic Compounds (VOC's) or other volatile substances.

Water vapour resistance (EN ISO 10456)	$\mu = \infty$
Hygroscopicity (EN ISO 12571)	zero
Capillarity (EN 1015-18)	zero
Thermal expansion coefficient (EN 13471)	9×10^{-6} K ⁻¹
Specific heat (EN ISO 10456)	1000 J/(kg·K)

The information contained in this product data sheet is accurate and reliable to the best of our knowledge as of its date issued and is subject to change without prior notice. No guarantee of accuracy is given or implied. This document supersedes and replaces all information supplied prior to the publication hereof. The provision of this information should not be construed as a recommendation to use any of our products, nor to use any of our products in violation of any patent rights or in breach of any statute or regulation.

Since FOAMGLAS® business has no control over installation workmanship, accessory materials or conditions of application, no express or implied warranty of any kind, including those of merchantability or fitness for a particular purpose or course of performance or usage of trade, is made as to the performance of an installation containing FOAMGLAS® products. User is solely responsible for determining whether a FOAMGLAS® product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a FOAMGLAS® product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluates the FOAMGLAS® product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

Liability of FOAMGLAS® business, if any, is strictly limited to replacement of product. In no event shall FOAMGLAS® business be liable for any other damages arising because of product failure, whether incidental, special, consequential or punitive, regardless of the theory of liability upon which any such damages are claimed. Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance.