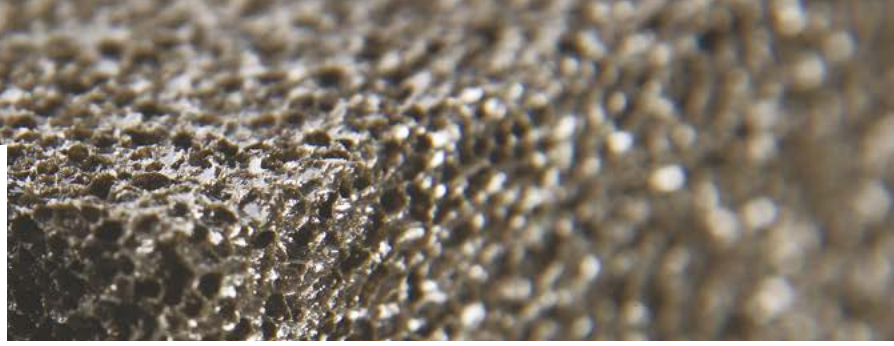


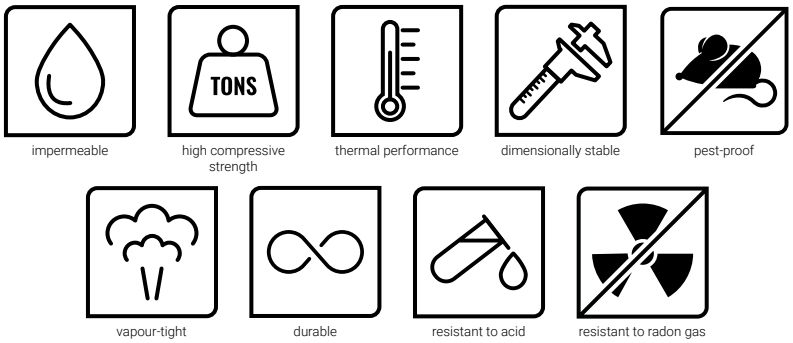
FOAMGLAS®

PRODUCT DATA SHEET

FOAMGLAS® BOARD F

FOAMGLAS® BOARD F consists of FOAMGLAS® F slabs bonded together and covered with a lining. The top side of the insulation board is lined with a PE-glass fleece composite (black with an orange print) and the bottom side is lined with a white glass fleece.

Product features



Applications

Insulation to be used for high compressive strength requirements:

- below ground and perimeter insulation
- floor insulation in industrial environments
- foundation slabs

Dimensions

Length x width (mm)	1200 x 600									
Thickness (mm)	40	50	60	80	100	120	140	150	160	180
R_D (m^2K/W)	0.80	1.00	1.20	1.60	2.00	2.40	2.80	3.00	3.20	3.60

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

Density (EN 1602) ± 10%	165 kg/m^3
Thickness (EN 823) ± 2 mm	40 - 180 mm
Length (EN 822) ± 5 mm	1200 mm
Width (EN 822) ± 2 mm	600 mm
Thermal conductivity (EN ISO 10456)	$\lambda_D \leq 0.050$ W/(m·K)
Reaction to fire (EN 13501-1)	Euroclass E
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, σ_{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

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 x 10^{-6} K^{-1}
Specific heat (EN ISO 10456)	1000 J/(kg·K)

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