

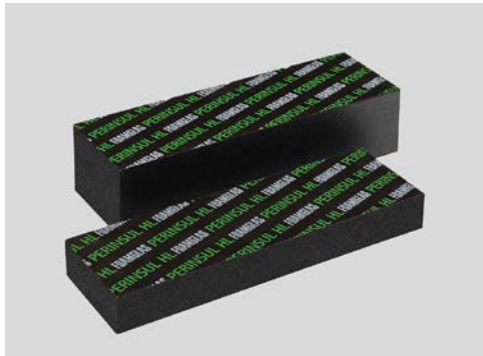
FOAMGLAS® PERINSUL HL (High load)

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Date: 01.03.2020

Supersedes: 25.09.2018

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FOAMGLAS® PERINSUL HL is a very high density speciality product used to eliminate structural thermal bridging. The upper and the lower surface of the insulation are bitumen coated and laminated with a PE/Glass Fleece Composite, compatible with mortar. The upper side is green.

Form of delivery (content per package)

thickness x length [mm]	65 x 450 mm		
width [mm]	100	140	215
units	25	17	12
linear running metre [m]	11.25	7.65	5.40

thickness x length [mm]	100 x 450 mm		
width [mm]	100	140	215
units	15	10	7
linear running metre [m]	6.75	4.50	3.15

thickness x length [mm]	140 x 450 mm	
width [mm]	140	215
units	6	5
linear running metre [m]	2.70	2.25

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) : $9 \times 10^{-6} / K$
- 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 conforming to EN 13167

Density ($\pm 15\%$) (EN 1602)	: 200 kg/m ³
Thickness (EN 823) ± 2 mm	: 65, 100, 140 mm
Length (EN 822) ± 2 mm	: 450 mm
Width (EN 822) ± 2 mm	: from 90 to 365 mm
Thermal conductivity (EN ISO 10456)	: $\lambda_D \leq 0.058$ W/(m·K)
Reaction to fire (EN 13501-1)	: Euroclass E (Core material Euroclass A1)
Point load (EN 12430)	: PL ≤ 1.0 mm
Compressive strength (EN 826 annex A)	: CS ≥ 2.75 MPa

2. Additional product characteristics

Thermal diffusivity at 0°C	: 3.5×10^{-7} m ² /sec
Compressive strength CS-mean	: $f_b = 2,9$ MPa $\pm 25\%$
per unit capped with mortar (EN 772-1) ¹⁾	
Compressive strength of masonry f_k ¹⁾	: KZ: limestone: $f_k \geq 1.80$ MPa
	: P: full ceramic stone: $f_k \geq 1.60$ MPa
	: SB: ceramic fast block: $f_k \geq 1.50$ MPa
Flexural modulus of elasticity	: E = 1500 MN/m ²

¹⁾ Tested in conformity with EN 1996-1-1 (Eurocode 6 'Masonry') and some test specimen in conformity with EN-1052-1 in MPa or N/mm².
18/0636 ETA-European Technical Assessment according the CPR-latest procedures.

3. Applications

- Floor-wall base element to eliminate structural thermal bridging and rising damp
- Parapet walls