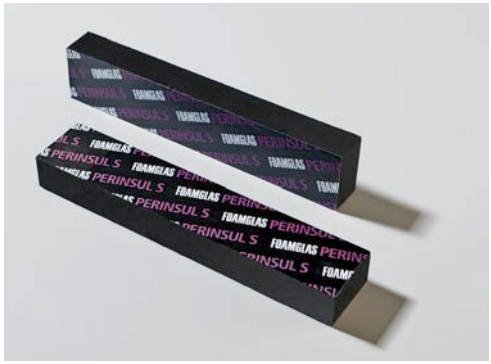
FOAMGLAS® PERINSUL S (Standard)



FOAMGLAS® PERINSUL S is a 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 glass reinforced fleece, compatible with mortar. The upper side is purple.

Form of delivery (content per package)

thickness x length [mm]	50 x 450 mm					
width [mm]	115	140	175	240	300	365
units	28	23	16	12	10	9
linear running metre [m]	12,60	10,35	7,20	5,40	4,50	4,05

thickness x length [mm]	80 x 450 mm		100 x 450 mm	
width [mm]	250	300	240	300
units	6	5	7	5
linear running metre [m]	2,70	2,25	3,15	2,25

thickness x length [mm]	115 x 450 mm					
width [mm]	115	140	175	240	365	
units	12	9	8	5	4	
linear running metre [m]	5,40	4,05	3,60	2,25	1,80	

Other dimensions 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)	:	μ = ∞
Hygroscopicity	:	zero
Capillarity	:	zero
Melting point (cf DIN 4102-17)	:	>1000 C°
Thermal expansion coefficient (EN 13471)	:	9 x 10^{-6} / K
Specific heat (EN ISO 10456)	:	1000 J/(kg.K)
FOAMGLAS® characteristics	:	


Waterproof


Resistant to attack


High compressive strength


Acid resistant / chemical resistant


Easy cut to shape


Non-combustible


Impervious to water vapour


Dimensionally stable


Ecological


Radon protection

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FOAMGLAS® PERINSUL S (Standard)

1. Product characteristics conforming to EN 13167 [1] and ETA [2]

Density (± 15%) (EN 1602)	: 165 kg/m^3
Thickness (EN 823) ± 2 mm	: 50, 80, 100, 115 mm
Length (EN 822) ± 2 mm	: 450 mm
Width (EN 822) ± 2 mm	: 90 to 365 mm
Thermal conductivity (EN ISO 10456)	: $\lambda_D \leq 0.050$ 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-A)	: CS ≥ 1.6 MPa

[1] 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 3rd party.
[2] ETA approval is available.

2. Additional product data

Thermal diffusivity at 0°C	: 3.5 x 10^{-7} m^2/sec	
Product Conformity	: BS EN 13167 : 2001	
Compressive strength CS-mean per unit capped with mortar (EN 772-1) [3]	: CS_{mean} ≥ 1.8 MPa	
Compressive strength of masonry f_k [3]	: **KZ**: limestone:	1.20 MPa
	P: full ceramic stone:	0.90 MPa
	SB: ceramic fast block:	0.90 MPa
Flexural modulus of elasticity	: E = 1500 MN/m^2	

[3] 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/mm^2.

3. Application area

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

For higher compressive strength requirements use: FOAMGLAS® PERINSUL® HL (high load)