FOAMGLAS® READY T4+

FOAMGLAS® READY T4+ consists of a FOAMGLAS® T4+ slab.
The upper surface is coated with a bitumen layer and covered with a PE foil.
This allows direct torch-on of waterproofing sheets.

Form of delivery (content per pallet)

length x width [mm]	600 x 450								
thickness [mm]	40	50	60	70	80	90	100	110	120
R_D [m²K/W]	0.95	1.20	1.45	1.70	1.95	2.20	2.40	2.65	2.90
units	120	96	80	68	60	52	48	40	40
square metre [m²]	32.40	25.92	21.60	18.36	16.20	14.04	12.96	10.80	10.80

length x width [mm]	600 x 450								
thickness [mm]	130	140	150	160	170	180	190	200	
R_D [m²K/W]	3.15	3.40	3.65	3.90	4.15	4.35	4.60	4.85	
units	36	32	32	28	28	24	24	24	
square metre [m²]	9.72	8.64	8.64	7.56	7.56	6.48	6.48	6.48	

Other dimensions and thicknesses are available on request.

General FOAMGLAS® Cellular Glass Insulation characteristics

Description	: 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.
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^{-1}
Specific heat (EN ISO 10456)	: 1000 J/(kg·K)
FOAMGLAS® characteristics	:


Time-tested thermal performance


Waterproof

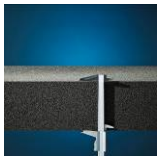

Resistant to attack


High compressive strength


Acid resistant / chemical resistant


Non-combustible


Impervious to water vapour


Dimensionally stable


Ecological


Radon protection

Pittsburgh Corning Europe NV
FOAMGLAS® Distributors, Lasne Business Park, Building B, Chaussée de Louvain 431, B-1380 Lasne (Brussels), Belgium
Phone +32 2 352 31 70, Mail: info-intl@foamglas.com, www.foamglas.com/distributors

FOAMGLAS® READY T4+

1. Product characteristics according to EN 13167 [1] and ETA17/0903 [2]

Density (± 15%) (EN 1602)	: 115 kg/m^3
Thickness (EN 823) ± 2 mm	: from 40 to 200 mm
Length (EN 822) ± 2 mm	: 600 mm
Width (EN 822) ± 2 mm	: 450 mm
Thermal conductivity (EN ISO 10456)	: $\lambda_D \leq 0.041$ W/(m·K)
Reaction to fire (EN 13501-1)	: Euroclass E (Core material Euroclass A1)
Point load (EN 12430)	: PL ≤ 1.5 mm
Compressive strength (EN 826 annexe A)	: CS ≥ 600 kPa
Characteristic value of compressive stress (ISO 12491:1997)[3]	: $\sigma_{0,05}$ = 633 KPa (n=50, σ_{mean} = 750 kPa, s_0 = 55 kPa)
Bending strength (EN 12089)	: BS ≥ 450 kPa
Tensile strength (EN 1607)	: TR ≥ 150 kPa
Compressive creep (EN 1606)	: CC (1,5/1/50) 225

1) CE-marking ensures conformity with the mandatory essential requirements of CPR 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-17/0903 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.
3) Characteristic value of compressive stress or compressive strength, 5%-fractile value for a one-sided confidence level of 75 % under unknown or known variance using ISO 12491:1997.

2. Additional product characteristics

Thermal diffusivity at 0°C	: 4.2 x 10^{-7} m^2/sec
BRE Green Guide Rating	: A

3. Applications

Insulation system allowing for torch-on roofing:
- flat roofs (cold bonding on concrete using PC® 500)
- belowgrade walls (perimeter)

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