



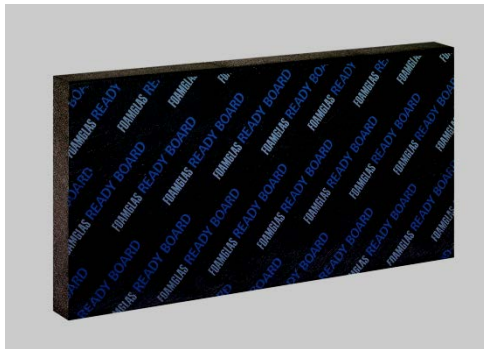
FOAMGLAS® READY BOARD T4+

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Date: 01.08.2021

Supersedes: 01.04.2020

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FOAMGLAS® READY BOARD T4+ consists of FOAMGLAS® T4+ slabs bonded together. The upper surface is coated with a bitumen layer and covered with a PE foil. This allows direct torch-on of waterproofing sheets. The lower side is lined with a white glass fleece facing.

Form of delivery (content per package)

length x width [mm]	1200 x 600									
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	6	5	4	4	3	3	3	2	2	
square metre [m²]	4.32	3.60	2.88	2.88	2.16	2.16	2.16	1.44	1.44	

length x width [mm]	1200 x 600								
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	2	2	2	2	14*	14*	12*	12*	
square metre [m²]	1.44	1.44	1.44	1.44	10.08	10.08	8.64	8.64	

Other dimensions and thicknesses are available on request.

* No single package, but all boards on a pallet.

General FOAMGLAS® Cellular Glass Insulation characteristics

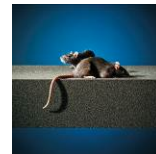
Description	: FOAMGLAS® Insulation is manufactured from specially graded recycled glass and natural raw materials which are available in abundant supply (sand, dolomite, lime...). The insulation is totally inorganic, contains no ozone depleting propellants, flame resistant additives or binders. Without 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)	: $\mu = \infty$
Hygroscopicity	: zero
Capillarity	: zero
Melting point (cf DIN 4102-17)	: >1000 °C
Thermal expansion coefficient (EN 13471)	: $9 \times 10^{-6} \text{ K}^{-1}$
Specific heat (EN ISO 10456)	: 1000 J/(kg·K)
FOAMGLAS® characteristics	:



Time-tested thermal performance



Waterproof



Resistant to attack



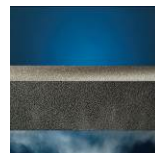
High compressive strength



Acid resistant / chemical resistant



Non-combustible



Impervious to water vapour



Dimensionally stable



Ecological



Radon protection



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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) ± 5 mm	: 1200 mm
Width (EN 822) ± 2 mm	: 600 mm
Thermal conductivity (EN ISO 10456)	: $\lambda_D \leq 0.041 \text{ W/(m}\cdot\text{K)}$
Reaction to fire (EN 13501-1)	: Euroclass E (Core material Euroclass A1)
Point load (EN 12430)	: $PL \leq 1.5 \text{ mm}$
Compressive strength (EN 826 annexe A)	: $CS \geq 600 \text{ kPa}$
Characteristic value of compressive stress (ISO 12491:1997) ³	: $\sigma_{0,05} = 633 \text{ KPa}$ ($n=50$, $\sigma_{\text{mean}} = 750 \text{ kPa}$, $s_0 = 55 \text{ kPa}$)
Bending strength (EN 12089)	: $BS \geq 450 \text{ kPa}$
Tensile strength (EN 1607)	: $TR \geq 150 \text{ kPa}$
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	: $4.2 \times 10^{-7} \text{ m}^2/\text{sec}$
Flexural modulus of elasticity E	: 700 MN/m ²
BRE Green Guide Rating	: A
NBS plus	: yes
RIBA - CPD Assessed Material	: yes

3. Applications

- Flat roofs
- Pitched
- Metal roofs
- External walls below ground.

Where two or more layers are required, use FOAMGLAS® READY BOARD T4+ (2) as the base layer, which has fleece on both sides. Also suitable for floors and walls