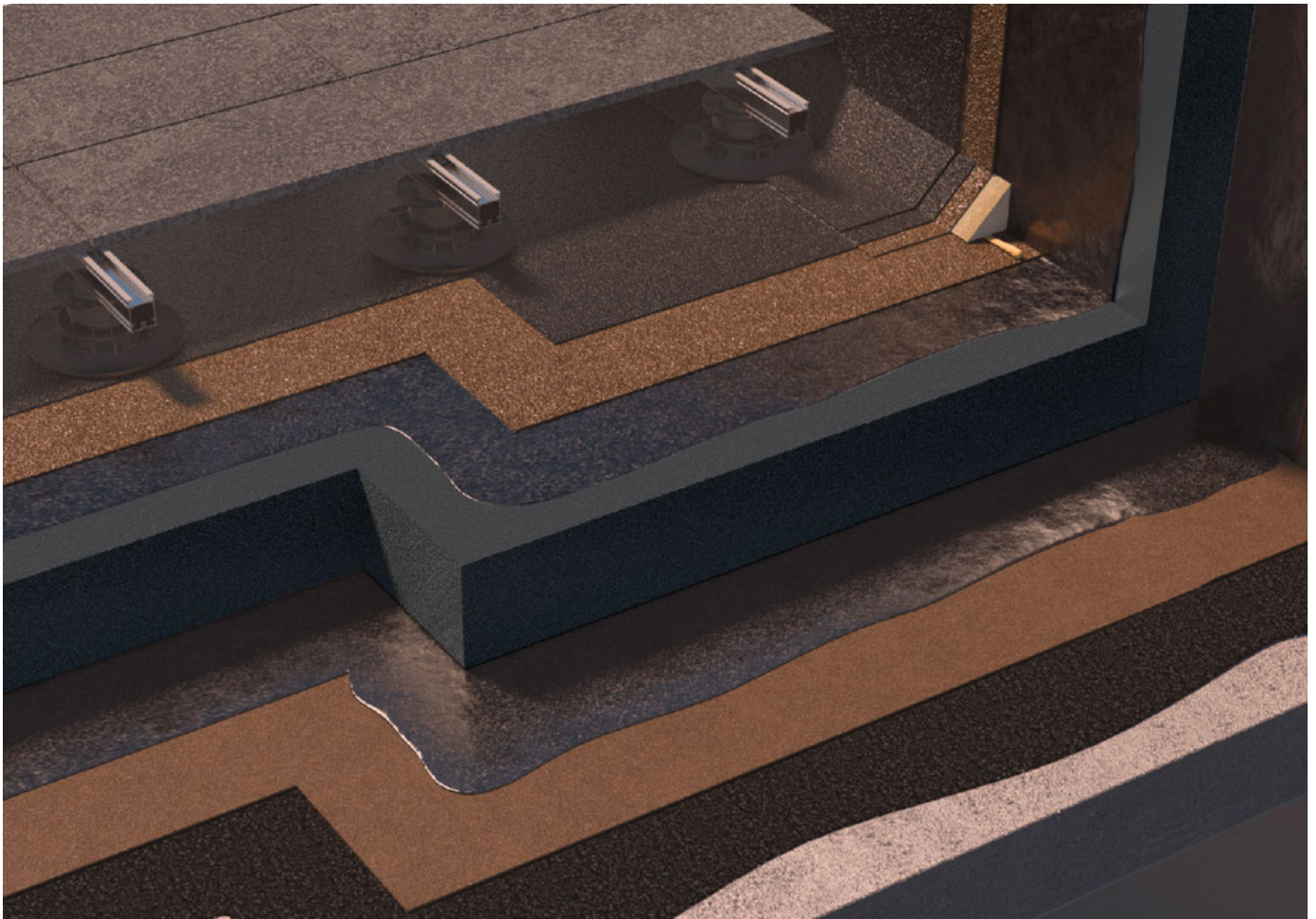


FOAMGLAS® BOARD T4+



A warm roof insulation board suitable for a wide range of building envelope applications - floors, flat roofs, and roofs with a metal standing seam covering.

Manufactured by

FOAMGLAS®

FOAMGLAS® BOARD T4+

General Information

FOAMGLAS® core* 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.

*See information regarding fleece facing on T4+

DECLARED PERFORMANCE (Product characteristics according to EN 13167¹⁾)

Essential Characteristics	Performance	Unit	Standard
Density (± 10%)	115	kg/m ³	EN 1602
Thickness ± 2 mm	from 40 up to 200	mm	EN 823
Length ± 5 mm	1200	mm	EN 822
Width ± 2 mm	600	mm	EN 822
Thermal conductivity	$\lambda_D \leq 0.041$	W/(m·K)	EN ISO 10456
Reaction to fire	Euroclass E (Core material Euroclass A1)		EN 13501-1
Point load	PL ≤ 1.5	mm	EN 12430
Compressive strength	CS ≥ 600	kPa	EN 826 annexe A
Bending strength	BS ≥ 450	kPa	EN 12089
Tensile strength	TR ≥ 150	kPa	EN 1607
Thermal diffusivity at 0°C	4.2×10^{-7}	m ² /sec	-
Flexural modulus of elasticity E	700	MN/m ²	-
BRE Green Guide Rating	A	-	-
NBS plus	yes	-	-
RIBA - CPD Assessed Material	yes	-	-
		-	-
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)		

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.

FOAMGLAS® BOARD T4+

FORM OF DELIVERY (CONTENT PER PACKAGE)

Length (mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
Width (mm)	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
Thickness (mm)	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
RD [m ² K/W]	0.95	1.20	1.45	1.70	1.95	2.20	2.40	2.65	2.90	3.15	3.40	3.65	3.90	4.15	4.35	4.60	4.85
Units	6	5	4	4	3	3	3	2	2	2	2	2	2	14*	14*	12*	12*
Square metre [m ²]	4.32	3.60	2.88	2.88	2.16	2.16	2.16	1.44	1.44	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.

Description

FOAMGLAS® BOARD T4+ have a glass fleece facing, to aid adhesion and bonding. Boards are used throughout the entire internal and external building envelope, and are particularly useful upon profiled metal roof decks. The board insulation core comprises of cellular glass and so meets Euroclass A1 standards, only the thin fleece facing adds a combustible element, resulting in the overall board product being rated as E. The boards are popular for larger areas and faster installation.

Suitable for a wide range of building envelope applications - floors, flat roofs, and roofs with a metal standing seam covering - FOAMGLAS® T4+ offers a thermal conductivity of 0.041 W/(m·K) and a UDL compressive strength of 600 kPa. Compressive strength requirements for any application should always be confirmed with a structural engineer to ensure the correct product specification.

Applications

Insulation of:

- façades
- cavity walls (in between 2 concrete shells)
- walls and soffits; interior insulation behind brick lining, plasterboard stud wall construction
- floors

Delivery conditions

Delivery form

Shrunk wrapped on a pallet, quantity depending on board thickness.

Storage and transport

During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources. This material contains a halogenated flame retardant additive system to inhibit accidental ignition from small fire sources

Product identification

Information on the pack.

Product name.

Dimensions.

Approvals.

This information given in good faith and is based on the latest knowledge available to Quantum Insulation Ltd. Whilst every effort has been made to ensure that the contents of the publication are current while going to press, customers are advised that products, techniques and codes of practice are under constant review and liable to change without notice.

For further information on Quantum Insulation products and services please call 01858 456018 or email sales@quantuminsulation.com

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