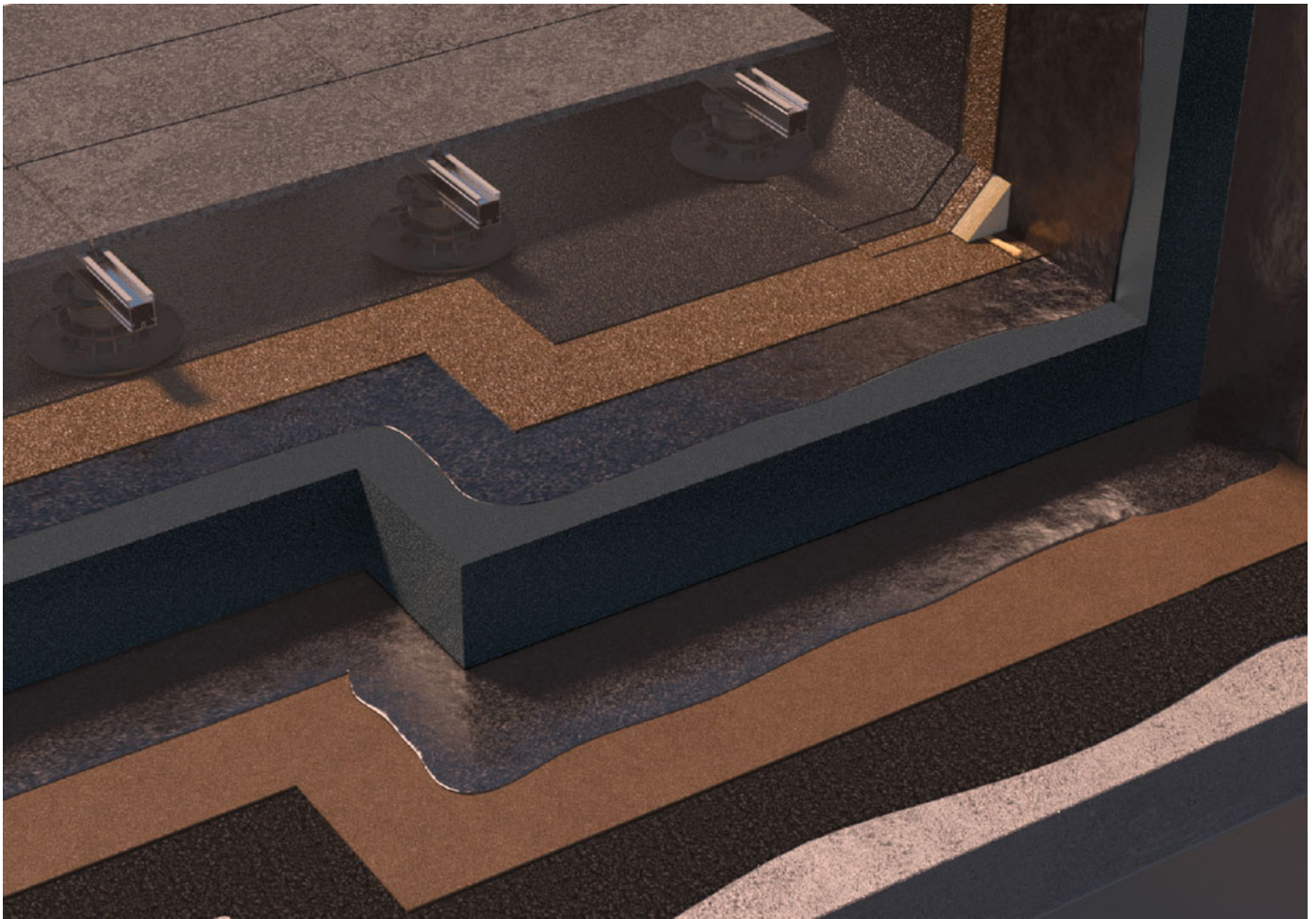


FOAMGLAS® BOARD T4+



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® T4+ is manufactured from specially graded recycled glass ($\geq 60\%$) and natural raw materials which are available in abundant supply (sand, dolomite, lime etc). The insulation is totally inorganic, contains no ozone depleting propellants, flame resistant additives or binders. Without VOC or other volatile substances. For use with Radmat waterproofing systems.

Features

- Non-combustible
- Time tested thermal performance
- Waterproof
- Resistant to attack
- High compressive strength

Application

Insulation of:

- flat roofs: concrete, metal deck and special roofs.
- façades.
- interior insulation: walls, ceilings, 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. Production date.

THERMAL RESISTANCE (R-VALUE)

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

FORM OF DELIVERY (CONTENT PER PACKAGE)

Thickness (mm)	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
Length (mm)	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
Width (mm)	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Boards	12	10	8	7	6	6	5	5	4	4	3	3	3	3	3	3	3
Square metres	3.24	2.70	2.16	1.89	1.62	1.62	1.35	1.35	1.08	1.08	0.81	0.81	0.81	0.81	0.81	0.81	0.81

PALLET INFORMATION

Thickness (mm)	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
Length (m)	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
Width (m)	1.03	1.00	1.00	1.01	1.08	1.03	1.10	1.00	1.05	1.12	1.01	1.00	1.02	1.19	1.15	1.20	1.20
Height (m)	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
Packs per pallet	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Square metres	32.4	25.92	22.68	19.44	19.44	16.2	16.2	12.96	12.96	12.96	9.72	9.72	9.72	9.72	9.72	9.72	9.72

FOAMGLAS® BOARD T4+

DECLARED PERFORMANCE

Essential Characteristics	Performance	Unit	Standard
Dimensions and tolerances			
- Thickness ± 2 mm	from 40 to 200	mm	EN 823
- Width ± 2 mm	450	mm	EN 822
- Length ± 2 mm	600 (300 half slabs available)	mm	EN 822
- Density (± 15%)	115	kg/m ³	EN 1602
Reaction to fire classification			
FOAMGLAS® SLAB T4+ (unfaced)	A1 non-combustible	-	EN 13501-1
FOAMGLAS® READY BLOCK T3+ (Bitumen-coated upper face)	E combustible (Core material: A1)	-	EN 13501-1
FOAMGLAS® ROOF BLOCK G1 T3+ (White glass fleece upper face)			
Mechanical properties			
- Thermal conductivity	$\lambda_D \leq 0.041$	W/(m·K)	EN ISO 10456
- Point load	PL ≤ 1.5 mm	mm	EN 12430
- Compressive strength	CS ≥ 633	kPa	EN 826 annexe A
- Bending strength	BS ≥ 450	kPa	EN 12089
- Tensile strength	TR ≥ 150	kPa	EN 1607
- Compressive creep	CC (1.5/1/50) 225	-	EN 1606
Hygrometric properties			
- Water vapour resistance	$\mu = \infty$	-	EN ISO 10456
- Hygroscopicity	zero	-	-
Environmental properties			
- Environmental Product Declaration	EPD-PCE-20150042-IBA1-DE	-	ISO 14025 and EN 15804
- BRE Green Guide rating	A	-	-
- Certificate natureplus	0406-1101-101-1	-	-
Other properties			
- Service temperature limits	from -265 to +430	°C	-
- Capillarity	zero	-	-
- Melting point (cf DIN 4102-17)	>1000	°C	-
- Thermal expansion coefficient	9×10^{-6}	K ⁻¹	EN 13471
- Specific heat (EN ISO 10456)	1000	J/(kg·K)	EN ISO 10456

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.

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.

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