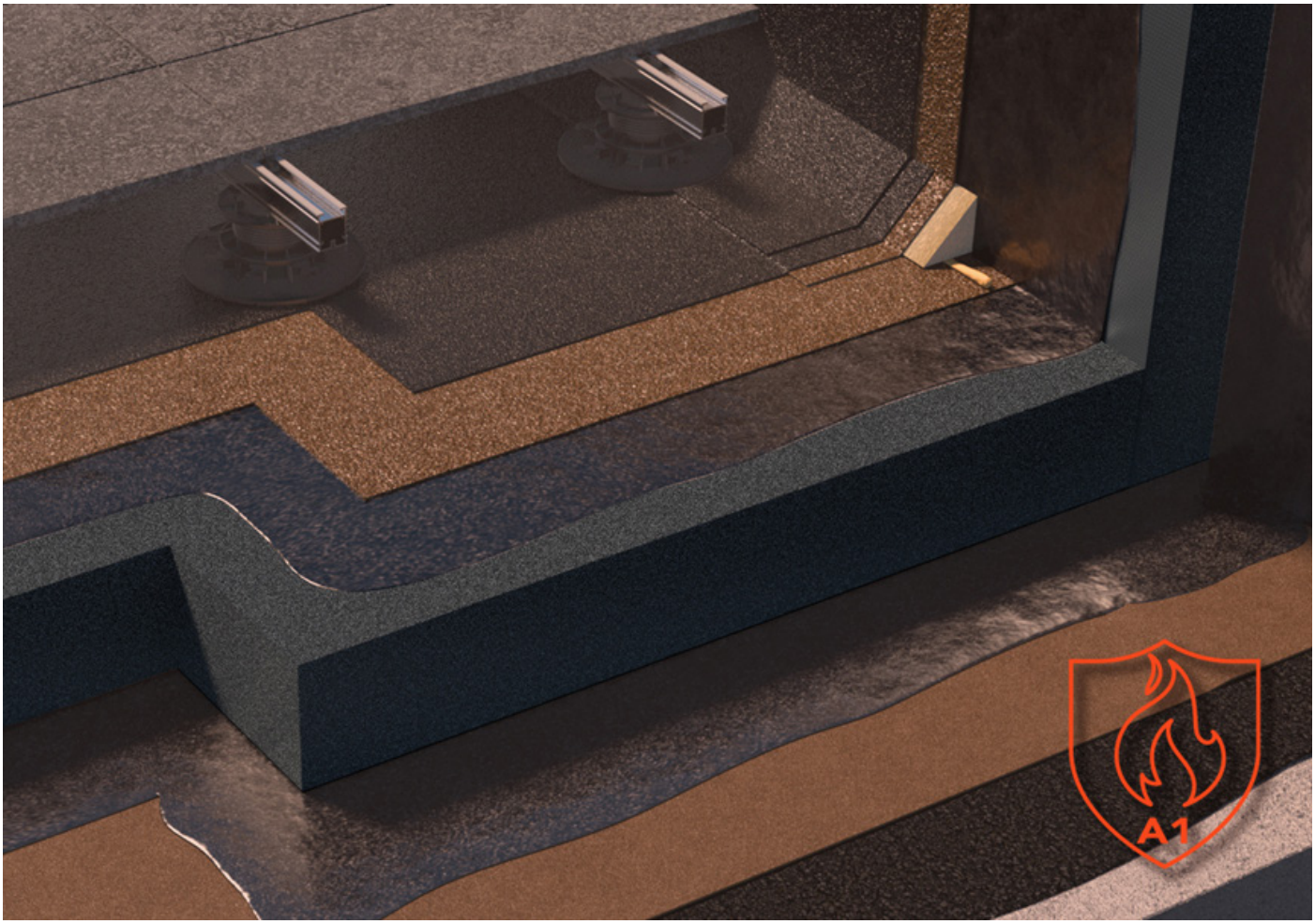
QUANTUM INSULATION

Product Data Sheet

FOAMGLAS® F



A warm roof insulation board manufactured from specially graded recycled glass (≥ 60%) and natural raw materials.

Manufactured by FOAMGLAS®

FOAMGLAS® F

General Information

FOAMGLAS® F is a warm roof insulation board 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.

Offering the highest compressive strength of any FOAMGLAS® product, FOAMGLAS® F is used above or beneath floor slabs, and upon roofs where the compressive loads are high.

For use with approved waterproofing systems.

DECLARED PERFORMANCE			
Essential Characteristics	Performance	Unit	Standard
Density (± 10%)	165[3]	kg/m^3	EN 1602
Thickness ± 2 mm	from 40 to 180 ± 2 mm	mm	EN 823
Length ± 2 mm	λ 600	mm	EN 822
Width ± 2 mm	450	mm	EN 822
Thermal conductivity	D ≤ 0.050	W/(m·K)	EN ISO 10456
Reaction to fire	Euroclass A1	-	EN 13501-1
Point load	PL ≤ 1.0 mm	mm	EN 12430
Compressive strength	CS ≥ 1600	kPa	EN 826 annexe A
Bending strength	BS ≥ 550 kPa	kPa	EN 12089
Tensile strength	TR ≥ 200 kPa	kPa	EN 1607
Thermal diffusivity at 0°C	3.5 x 10^7	m^2/sec	-
Flexural modulus of elasticity	1500	MN/m^2	-
BRE Green Guide Rating	A	-	-
Certificate natureplus	0406-1101-101-1	-	-
Reaction to fire (EN 13501-1)	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)		

according to EN 13167

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FOAMGLAS® F

FORM OF DELIVERY (CONTENT PER PACKAGE)															
Length (mm)	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
Thickness (mm)	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
RD [m²K/W]	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60
units	12	10	8	7	6	6	5	5	4	4	4	3	3	3	3
square metre [m²]	3.24	2.70	2.16	1.89	1.62	1.62	1.35	1.35	1.08	1.08	1.08	0.81	0.81	0.81	0.81

Other dimensions and thicknesses are available on request.

Certificates

ISO 9001 (2000) Quality Management System, ISO 14001 :2004 Environmental Management System.

Installation Instructions

Apply FOAMGLAS® F insulation boards parallel to roof perimeter long edges. Stagger end joints.

Lay FOAMGLAS® F insulation boards with edges in moderate contact without forcing.

Cut FOAMGLAS® F insulation to fit neatly to perimeter blocking and around penetrations through roof, when using a 2nd layer stagger joints of insulation from first layer.

Cut FOAMGLAS® F boards to slope for a distance of 600mm back from roof drains for positive drainage.

Apply no more FOAMGLAS® F insulation than can be covered with aggregate ballast/concrete roof pavers/green roofing in the same day.

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.

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

JAN 2020

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