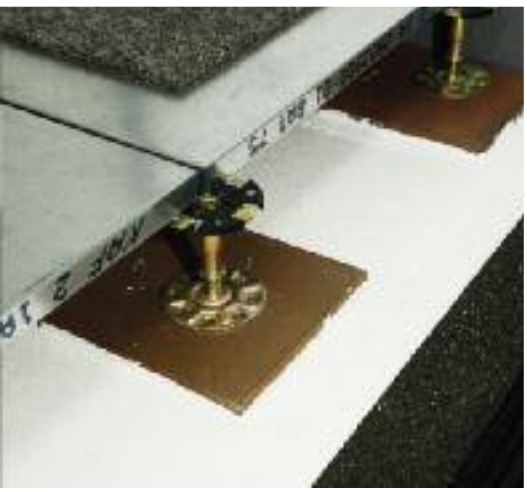
Product Profile

The Thermal Insulation System.

FOAMGLAS®
Building



www.foamglas.co.uk

Overview of Product Properties

1 Waterproof FOAMGLAS® has an hermetically sealed closed cell glass structure, therefore it is waterproof.
Advantage: Does not absorb any moisture and does not swell.

2 Vermin-proof FOAMGLAS® is inorganic, therefore it cannot rot and it is vermin-proof.
Advantage: No risk of rot in locations above or below ground. Resistance to nesting, breeding or seed germination.

3 Compression-proof FOAMGLAS® has high compressive strength. Due to its cell structure long-term compressive loads can be applied without movement or deformation. **Advantage:** A load-bearing thermal insulation, in locations where high compressive loads are present.

4 Non-combustible FOAMGLAS® consists of pure glass, therefore it is non-combustible to classification EN 13501: A1.
Advantage: In a fire situation there is no propagation of flames, no smoke or toxic gases.

5 Vapour-tight FOAMGLAS® has an hermetically sealed closed cell structure, therefore it is gas tight and water vapour-tight.
Advantage: Vapour cannot permeate the sealed glass cell structure. FOAMGLAS® provides a constant thermal insulation performance for the lifetime of the building. The potential penetration of radon gas is dramatically reduced.

6 Dimensionally stable FOAMGLAS® is dimensionally stable because glass neither shrinks nor swells.
Advantage: There cannot be any warping, buckling or creep. Cellular glass material has thermal movement characteristics similar to concrete and steel. The insulation is adhesive bonded to the structure.

7 Acid-resistant FOAMGLAS® consists of pure glass, therefore it is resistant to organic solvents and acids.
Advantage: FOAMGLAS® cannot be affected by aggressive mediums and atmospheres.

8 Easy to work with FOAMGLAS® consists of glass cells and is easy cut, trimmed and shaped.
Advantage: At the construction site FOAMGLAS® is easily be cut to size ensuring a close fit, which ensures continuity of the insulation.

9 Ecological FOAMGLAS® consists of recycled glass. Only renewable power is used in the manufacturing process.
Advantage: After decades of use as thermal insulation FOAMGLAS® can be ecologically recycled.

natureplus®
No. 0406-1101-101-1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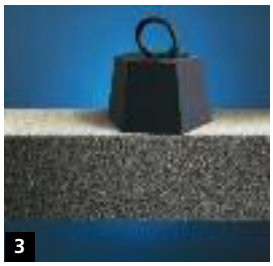
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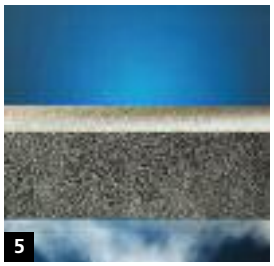
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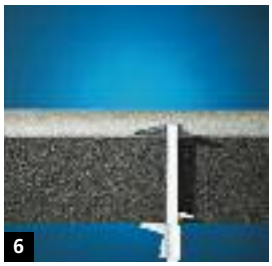
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Additional Characteristics

Composition	Pure glass with a high percentage of recycled glass, inorganic, no added fire retardants or binding agents.
Applicable limit temperatures	From –265 °C to +430 °C
Melting point (cf. DIN 4102-17)	> 1000 °C
Water absorption	0
Biological influences	Resistant against microbes, rodents, insects and vermin.
Water vapour diffusion resistance figure	$\mu = \infty$
Capillarity and hygroscopicity	None
Fire behaviour (EN 13501-1)	A1
Dimensional stability	Does not swell, shrink, warp or creep
Airborne sound reduction	28 dB at 100 mm thickness (in the mid frequency range)

Content

FOAMGLAS® Slabs

Product data




EN 13167	FOAMGLAS® W+F	FOAMGLAS® T4+	FOAMGLAS® S3	FOAMGLAS® F
Dimensions in mm thickness Length 600 mm, Width 450 mm**	50 – 160 ***	40 – 200 ***	40 – 180 ***	40 – 160 ***
Density (± 10%) [kg / m³]	100	115	130	165
Thermal conductivity λ_D [W / (m·K)]	≤ 0.038	≤ 0.041	≤ 0.045	≤ 0.050
Fire behaviour (EN 13501-1)	A1	A1	A1	A1
Melting point (cf. DIN 4102-17)	> 1000 °C	> 1000 °C	> 1000 °C	> 1000 °C
Compressive strength CS external surveillance, (EN 826, Annex A) [kPa]	≥ 400	≥ 600	≥ 900	≥ 1600
Bending strength BS (EN 12089) [kPa]	–	≥ 450	≥ 500	≥ 550
Tensile strength TR (EN 1607) [kPa]	≥ 100	≥ 100	≥ 100	≥ 150
Thermal expansion coefficient [K⁻¹]	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$
Specific heat [kJ / (kg·K)]	1.0	1.0	1.0	1.0
Thermal diffusivity at 0 °C (m² / s)	$4.4 \cdot 10^{-7}$	$4.2 \cdot 10^{-7}$	$4.1 \cdot 10^{-7}$	$3.5 \cdot 10^{-7}$
Water vapour resistance (EN ISO 10456)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)
Specific national product data				
Flexural modulus of elasticity E [MN / m²]	–	700	1200	1500
BRE Green Guide Rating	A+	A	A	B
Application area	– Façade – External walls – Internal walls – Cavity walls – Soffits	Universal, – Flat roofs – Internal floors – Internal walls – Façades	Universal, – Flat roofs – Internal floors higher compressive strength	Universal, – Flat roofs – Internal floors highest compressive strength

FOAMGLAS® Tapered Slab Insulation, T4+, S3, F

Factory produced with a tapered thickness as below:

% Slope:	0.55%	1.1%	1.25%	1.7%	2.2%	3.3%	4.4%	5.5%	6.7%
Gradient:	1:180	1:90	1:80	1:60	1:45	1:30	1:22.5	1:18	1:15
Angle:	0.32	0.64	0.72	0.96	1.27	1.91	2.55	3.18	3.81

Applications: Tapered Slab Insulation for Roofs, Balconies, Terraces, Walkways and Floors, Vehicle Roadway & Parking.

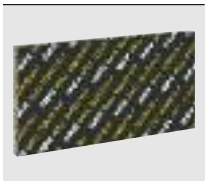
FOAMGLAS® with adhesive sealed joints provides an insulation system **and** vapour barrier.
FOAMGLAS® is easily cut or trimmed with a hand saw.

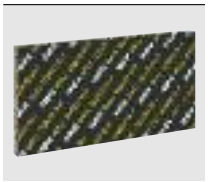
Contact **FOAMGLAS® UK** info@foamglas.co.uk,
Tapered Insulation Design Service, further information regarding pricing.

** Tolerances according to EN 13167.
*** For multiple layering FOAMGLAS® contact info@foamglas.co.uk

FOAMGLAS® Boards

Product data





EN 13167	FOAMGLAS® WALL BOARD W+F	FOAMGLAS® WALL BOARD T4+
Dimensions in mm thickness Length 1200 mm, Width 600 mm**	40 – 160***	40 – 180***
Density (± 10%) [kg / m³]	100	115
Thermal conductivity λ_D [W / (m·K)]	≤0.038	≤0.041
Fire behaviour (EN 13501-1) Core material Euro-standard A1	E B2	E B2
Melting point (cf. DIN 4102-17)	–	–
Compressive strength CS external surveillance, (EN 826, Annex A) [kPa]	≥ 400	≥ 600
Bending strength BS (EN 12089) [kPa]	–	≥ 450
Tensile strength TR (EN 1607) [kPa]	≥ 100	≥ 100
Thermal expansion coefficient [K^{-1}]	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$
Specific heat [kJ / (kg·K)]	1.0	1.0
Thermal diffusivity at 0 °C (m^2 / s)	$4.4 \cdot 10^{-7}$	$4.2 \cdot 10^{-7}$
Water vapour resistance (EN ISO 10456)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)
Specific national product data		
Flexural modulus of elasticity E [MN / m^2]	–	700
BRE Green Guide Rating	A+	A
Application area	– Internal walls – External walls above and below ground – Internal and external soffits	– Internal walls – External walls above and below ground – Internal and external soffits

** Tolerances according to EN 13167.
*** For multiple layering FOAMGLAS® contact info@foamglas.co.uk

FOAMGLAS® Boards

Product data

EN 13167	FOAMGLAS® READY BOARD T4+	FOAMGLAS® READY BOARD S3	FOAMGLAS® READY BOARD F
Dimensions in mm thickness Length 1200 mm, Width 600 mm**	40 – 180***	40 – 180***	40 – 160***
Density (± 10%) [kg / m³]	115	130	165
Thermal conductivity λ_D [W / (m·K)]	≤ 0.041	≤ 0.045	≤ 0.050
Fire behaviour (DIN 4102-1), core material Euro-standard A1	E B2	E B2	E B2
Compressive strength CS external surveillance, (EN 826, Annex A) [kPa]	≥ 600	≥ 900	≥ 1600
Bending strength BS (EN 12089) [kPa]	≥ 450	≥ 500	≥ 550
Tensile strength TR (EN 1607) [kPa]	≥ 100	≥ 100	≥ 150
Thermal expansion coefficient [K^{-1}]	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$
Specific heat [kJ / (kg·K)]	1.0	1.0	1.0
Thermal diffusivity at 0 °C (m^2 / s)	4.2×10^{-7}	4.4×10^{-7}	4.4×10^{-7}
Water vapour resistance (EN ISO 10456)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)

Specific national product data

Flexural modulus of elasticity E [MN / m²]	700	1200	1500
BRE Green Guide Rating	A	A	B
Application area	– Metal deck roofs – Terraces and balconies – Exterior below ground walls	– Metal deck roofs – Terraces and balconies – Exterior below ground walls	– Metal deck roofs – Terraces and balconies – Exterior below ground walls

Where two or more layers are required,
use FOAMGLAS® ROOF BOARD G2 as the base layer.

** Tolerances according to EN 13167.
*** For multiple layering FOAMGLAS® contact info@foamglas.co.uk

FOAMGLAS® Boards

Product data

EN 13167	FOAMGLAS® FLOOR BOARD T4+	FOAMGLAS® FLOOR BOARD S3	FOAMGLAS® FLOOR BOARD F
Dimensions in mm thickness Length 1200 mm, Width 600 mm**	40 – 180***	40 – 180***	40 – 160***
Density (± 10%) [kg / m³]	115	130	165
Thermal conductivity λ_D [W / (m·K)]	≤ 0.041	≤ 0.045	≤ 0.050
Fire behaviour (DIN 4102-1) Core material Euro-standard A1	E B2	E B2	E B2
Compressive strength CS external surveillance, (EN 826, Annex A) [kPa]	≥ 600	≥ 900	≥ 1600
Bending strength BS (EN 12089) [kPa]	≥ 450	≥ 500	≥ 550
Tensile strength TR (EN 1607) [kPa]	≥ 100	≥ 100	≥ 150
Thermal expansion coefficient [K^{-1}]	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$
Specific heat [kJ / (kg·K)]	1.0	1.0	1.0
Thermal diffusivity at 0 °C (m^2 / s)	$4.4 \cdot 10^{-7}$	$4.4 \cdot 10^{-7}$	$4.4 \cdot 10^{-7}$
Water vapour resistance (EN ISO 10456)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)
Specific national product data			
Flexural modulus of elasticity E [MN / m²]	700	1200	1500
BRE Green Guide Rating	A	A	B
Application area	– Internal floors – Beneath the structural floor slab	– Internal floors – Beneath the structural floor slab Higher compressive strength	– Internal floors – Beneath the structural floor slab Highest compressive strength

** Tolerances according to EN 13167.
*** For multiple layering FOAMGLAS® contact info@foamglas.co.uk

FOAMGLAS® Boards

Product data



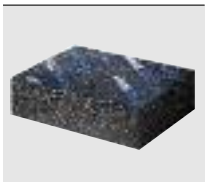
EN 13167	FOAMGLAS® ROOF BOARD G2 T4+	FOAMGLAS® ROOF BOARD G2 S3	FOAMGLAS® ROOF BOARD G2 F
Dimensions in mm thickness Length 1200 mm, Width 600 mm**	40 – 180***	40 – 180***	40 – 160***
Density (± 10%) [kg / m³]	115	130	165
Thermal conductivity λ_D [W / (m·K)]	≤ 0.041	≤ 0.045	≤ 0.050
Fire behaviour (DIN 4102-1), core material Euro-standard A1	E B2	E B2	E B2
Compressive strength CS external surveillance, (EN 826, Annex A) [kPa]	≥ 600	≥ 900	≥ 1600
Bending strength BS (EN 12089) [kPa]	≥ 450	≥ 500	≥ 550
Tensile strength TR (EN 1607) [kPa]	≥ 100	≥ 100	≥ 150
Thermal expansion coefficient [K^{-1}]	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$
Specific heat [kJ / (kg·K)]	1.0	1.0	1.0
Thermal diffusivity at 0 °C (m^2 / s)	4.2×10^{-7}	4.4×10^{-7}	4.4×10^{-7}
Water vapour resistance (EN ISO 10456)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)
Specific national product data			
Flexural modulus of elasticity E [MN / m²]	700	1200	1500
BRE Green Guide Rating	A	A	B
Application area	– Metal deck roofs – Terraces and balconies – as a base layer for READY BOARD	– Metal deck roofs – Terraces and balconies – as a base layer for READY BOARD	– Metal deck roofs – Terraces and balconies – as a base layer for READY BOARD

** Tolerances according to EN 13167.
*** For multiple layering FOAMGLAS® contact info@foamglas.co.uk

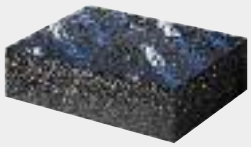
FOAMGLAS® Blocks

Product data



EN 13167	FOAMGLAS® READY BLOCK T4+	FOAMGLAS® READY BLOCK S3	FOAMGLAS® READY BLOCK F	FOAMGLAS® READY BLOCK TAPERED
Dimensions in mm thickness Length 600 mm, Width 450 mm**	40 – 180***	40 – 180***	40 – 160***	refer to type; see below
Density (± 10%) [kg / m³]	115	130	165	
Thermal conductivity λ_D [W / (m·K)]	≤ 0.041	≤ 0.045	≤ 0.050	
Fire behaviour (DIN 4102-1), core material Euro-standard A1	E B2	E B2	E B2	
Compressive strength CS external surveillance, (EN 826, Annex A) [kPa]	≥ 600	≥ 900	≥ 1600	
Bending strength BS (EN 12089) [kPa]	≥ 450	≥ 500	≥ 550	
Tensile strength TR (EN 1607) [kPa]	≥ 100	≥ 100	≥ 150	
Thermal expansion coefficient [K^{-1}]	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$	
Specific heat [kJ / (kg·K)]	1.0	1.0	1.0	
Thermal diffusivity at 0 °C (m^2 / s)	4.2×10^{-7}	4.1×10^{-7}	3.5×10^{-7}	
Water vapour resistance (EN ISO 10456)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)	
Specific national product data				
Flexural modulus of elasticity E [MN / m^2]	700	1200	1500	
BRE Green Guide Rating	A	A	B	
Application area	– Roofs – Metal deck roofs – Terraces and balconies – Base of the building (perimeter walls)	– Roofs – Metal deck roofs – Terraces and balconies – Base of the building (perimeter walls)	– Roofs – Metal deck roofs – Terraces and balconies – Base of the building (perimeter walls)	– Roofs – Metal decks – Terraces and balconies



FOAMGLAS® TAPERED READY BLOCK T4+, S3, F

Factory produced with a Tapered thickness* as below:

% Slope:	0.55%	1.1%	1.25%	1.7%	2.2%	3.3%	4.4%	5.5%	6.7%
Gradient:	1:180	1:90	1:80	1:60	1:45	1:30	1:22.5	1.18	1:15
Angle:	0.32	0.64	0.72	0.96	1.27	1.91	2.55	3.18	3.81

Applications: Flat Roofs, FOAMGLAS® TAPERED READY BLOCK. **READY BLOCK** is cold bonded with PC® adhesive to substructures. Membranes can be torched directly onto the upper surface of the READY BLOCK. FOAMGLAS® with adhesive sealed joints provides an insulation system **and** vapour barrier. FOAMGLAS® is easily cut or trimmed with a saw blade or hand saw.

Contact **FOAMGLAS® UK** info@foamglas.co.uk, Tapered Insulation Design Service, further information regarding pricing.

* For thickness over 180 mm install as 2 layers. Base layer is slab or ROOF BLOCK.

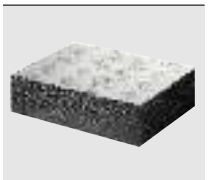
** Tolerances according to EN 13167.

*** For multiple layering FOAMGLAS® contact info@foamglas.co.uk

FOAMGLAS® Roof Blocks G1

Product data



EN 13167	FOAMGLAS® ROOF BLOCK G1 T4+	FOAMGLAS® ROOF BLOCK G1 S3	FOAMGLAS® ROOF BLOCK G1 F	FOAMGLAS® ROOF BLOCK TAPERED G1
Dimensions in mm thickness Length 600 mm, Width 450 mm**	30 – 200***	40 – 180***	40 – 160***	refer to type; see below
Density (± 10%) [kg / m³]	115	130	165	
Thermal conductivity λ_D [W / (m·K)]	≤ 0.041	≤ 0.045	≤ 0.050	
Fire behaviour (DIN 4102-1), core material Euro-standard A1	E B2	E B2	E B2	
Compressive strength CS external surveillance, (EN 826, Annex A) [kPa]	≥ 600	≥ 900	≥ 1600	
Bending strength BS (EN 12089) [kPa]	≥ 450	≥ 500	≥ 550	
Tensile strength TR (EN 1607) [kPa]	≥ 100	≥ 100	≥ 150	
Thermal expansion coefficient [K^{-1}]	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$	
Specific heat [kJ / (kg·K)]	1.0	1.0	1.0	
Thermal diffusivity at 0 °C (m^2 / s)	4.2×10^{-7}	4.1×10^{-7}	3.5×10^{-7}	
Water vapour resistance (EN ISO 10456)	$\mu = \infty$ (impervious to water vapour)	$\mu = \infty$ (impervious to water vapour)	$\mu = \infty$ (impervious to water vapour)	
Specific national product data				
Flexural modulus of elasticity E [MN / m^2]	700	1200	1500	
BRE Green Guide Rating	A	A	B	
Application area	– Roofs – Terraces and balconies – as a base layer for READY BLOCK	– Roofs – Terraces and balconies – as a base layer for READY BLOCK	– Roofs – Terraces and balconies – as a base layer for READY BLOCK	

Tapered insulation FOAMGLAS® ROOF BLOCK G1 T4+, S3, F

Factory produced with a Tapered thickness* as below:

% Slope:	0.55%	1.1%	1.25%	1.7%	2.2%	3.3%	4.4%	5.5%	6.7%
Gradient:	1:180	1:90	1:80	1:60	1:45	1:30	1:22.5	1.18	1:15
Angle:	0.32	0.64	0.72	0.96	1.27	1.91	2.55	3.18	3.81

Applications: Flat Roofs, Tapered Insulation System FOAMGLAS® ROOF BLOCK. **ROOF BLOCK** is cold bonded with PC® adhesive to substructures. FOAMGLAS® with adhesive sealed joints provides an insulation system **and** vapour barrier. FOAMGLAS® is easily cut or trimmed with a saw blade.

Contact **FOAMGLAS® UK** info@foamglas.co.uk, Tapered Insulation Design Service, further information regarding pricing.

* For thickness over 180 mm install as 2 layers. ROOF BLOCK is the base layer.

** Tolerances according to EN 13167.

*** For multiple layering FOAMGLAS® contact info@foamglas.co.uk

PC® PERISAVE: Base Block and Marginal Stop

Product data

EN 13167	FOAMGLAS® PC® PERISAVE Base block	FOAMGLAS® PC® PERISAVE Marginal stop
Dimensions in mm thickness Length 600 mm, Width 450 mm**	280	250 300
Dimensions in mm* Length 600 mm, Width 300**	–	300
Density (± 10%) [kg / m³]	100	100
Thermal conductivity λ_D [W / (m·K)]	≤ 0.038 W / mK	≤ 0.038 W / mK
Fire behaviour (DIN 4102-1), core material Euro-standard A1	E	E
Compressive strength CS external surveillance, (EN 826, Annex A) [kPa]	≥ 400	≥ 400
Bending strength BS (EN 12089) [kPa]		
Tensile strength TR (EN 1607) [kPa]	≥ 100	≥ 100
Thermal expansion coefficient [K^{-1}]	$9 \cdot 10^{-6}$	$9 \cdot 10^{-6}$
Specific heat [kJ / (kg·K)]	1.0	1.0
Thermal diffusivity at 0 °C (m^2 / s)	4.4×10^{-7}	4.4×10^{-7}
Water vapour resistance (EN ISO 10456)	μ = ∞ (impervious to water vapour)	μ = ∞ (impervious to water vapour)
Specific national product data		
Flexural modulus of elasticity E [MN / m^2]	–	–
BRE Green Guide Rating		
Application area	– Universal base element for passive house construction.	– Marginal stop, insulation and formwork for concrete floor slabs – System element fulfils thermal insulation requirements according to the passive house standard.

** Tolerances according to EN 13167.

FOAMGLAS® PERINSUL HL and Angle Fillets

Product data

	FOAMGLAS® PERINSUL HL			FOAMGLAS® angle fillet	
Dimensions [mm] **	**length** [mm]	**width** [mm]	**thickness** [mm]	**length** [mm]	450
	450	65	100, 140, 215	**width** [mm]	50
	450	100	100, 140, 215	**thickness** [mm]	50
	450	140	140, 215		
Density (± 10%) [kg / m³]	220			115	
Thermal conductivity λ_D [W / (m·K)]	≤ 0,058			≤ 0.041	
Compressive strength CS external surveillance, (EN 772-1) [MPa or N/mm²]	$CS_{mean} \geq 2.9$			–	
Bending strength BS (EN 12089) [kPa]	≥ 500			–	
Tensile strength TR (EN 1607) [kPa]	≥ 150			–	
Thermal expansion coefficient [K^{-1}]	$9 \cdot 10^{-6}$			$9 \cdot 10^{-6}$	
Specific heat [kJ / (kg·K)]	1.0			1.0	
Thermal diffusivity at 0 °C [m² / s]	$3.5 \cdot 10^{-7}$			$4.2 \cdot 10^{-7}$	
Water vapour diffusion resistance (EN ISO 10456)	μ = ∞ (impervious to water vapour)			μ = ∞ (impervious to water vapour)	
Specific national product data					
Flexural modulus of elasticity E [MN / m²]	1500			–	
BRE Green Guide Rating	C			–	
Application area	Thermal breaks; to ensure continuity of the insulation system by reducing thermal bridging at wall junctions and beneath window and door sills			Used to provide a 45 degree angle for roofing membranes to upstands	

** Tolerances according to EN 13167.

Primer and Sealing Compound

Product data

	PC® EM	PC® 310	PC® 130	PC® PITTSEAL 444
Type	Thick liquid, solvent-free bitumen emulsion	Solvent-free bonding course, adhesion primer	Sealing primer	Single component sealing compound, contact info@foamglas.co.uk for further information
Basis	Bitumen emulsion	Pigmented and quartziferous synthetic resin dispersion	White pigmented sealing primer based upon a saponification-resistant synthetic resin.	Butyl connection, Naphtha
Consistency	liquid	liquid	liquid	pasty
Applicable temperature	-15 °C to +40 °C	+5 °C to +35 °C	+5 °C to +30 °C	-50 °C to +80 °C
Processing temperatur (air + surface)	+5 °C	+5 °C to +35 °C	+5 °C bis +30 °C	+10 °C to +25 °C
Processing time	–	20 to 30 minutes	20 to 30 minutes	–
Drying time	App. 3 to 12 hours depending on temperature and humidity	at 20 °C and 65 % relative humidity, app. 12 hours	2 to 4 hrs dust dry at 20 °C after 15 hrs ready for coating	Skin formation in 1 to 3 hours
Dehydration time	–	–	–	No drying
Density	app. 1.04 kg / dm³	app. 1.6 kg / dm³	–	app. 1.50 kg / dm³
Colour	black	white, mat	white, mat	gray
Water vapour diffusion resistance	–	–	–	μ = app. 23 000
Water solubility	mixable	solvent	none	insoluble
Solvents	–	none	yes	few
Storage	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.
Storage time	See label for expiry date	See label for expiry date	See label for expiry date	See label for expiry date
Area of application	– Primer coat for absorbent substrates such as concrete, masonry and plaster. Dilute the product 1:10 with water.	PC® 310 is a solvent-free, pigmented and quartz sand coating. It is used as a primer between structural plaster and the coating PC® 74 A2.	Sealing primer used on coatings PC® 164 and PC® 74 A2.	– Single component sealing compound, contact info@foamglas.co.uk for further information.
Form of delivery	Container with 5 kg	Container with 25 kg	Container with 10 kg	– Cartridges with 0.31 kg – Container with 28 kg
Consumption	app. 300g / m² finished mixture	app. 250 g / m²	app. 250 to 400 g / m²	app. 0.25 kg / m

Adhesives

Product data

				
	PC® 56	**PC® 600 Green**	**PC® 500**	**PC® 58**
Type	Two-component adhesive, hydraulic binding	Single component thixotropic polymer glue and sealant	Single component adhesive	Two-component adhesive, hydraulic binding
Basis	– Component A: bitumen emulsion – Component B: calcium silicates, calcium aluminate, calcium aluminate ferrite	– Natural oils and other mineral substances	– Bitumen with a high percentage of fibres and other minerals	– Component A: bitumen emulsion – Component B: calcium silicates, calcium aluminate, calcium aluminate ferrite
Consistency	pasty	pasty	pasty	pasty
Applicable temperature	-15 °C to +45 °C on a non-frozen surface	-40 °C to +90 °C on a non-frozen surface	-30 °C to +80 °C	-15 °C bis +45 °C on a non-frozen surface
Processing temperatures (air + surface)	+5 °C to +35 °C	+5 °C to +40 °C	+5 °C to +40 °C	+5 °C bis +35 °C
Processing time	at 20 °C: app. 90 minutes	at 20 °C: several days	at 20 °C: several days	at 20 °C: app. 90 minutes
Drying time	app. 3 hours	several hours	several hours	app. 3 hours
Dehydration time	several days	several days	several months	1 to 3 days
Density	app. 1.20 kg / dm³	app. 1.63 kg / dm³	app. 1.50 kg / dm³	app. 1.20 kg / dm³
Colour	black-brown	green	black-brown	black-brown
Water vapour diffusion resistance figure	μ = app. 40 000	μ = app. 2 000	μ = app. 20 000	μ = app. 25 000
Water solubility	mixable	insoluble after complete drying	insoluble	mixable
Solvents	none	none	few	none
Storage	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.
Storage time	See label for expiry date	See label for expiry date	See label for expiry date	See label for expiry date
Area of application	– For bonding FOAMGLAS® Slabs / Boards to absorbent and non-absorbent surfaces. – Surface coating for slabs.	– For bonding FOAMGLAS® Slabs / Blocks to absorbent and non-absorbent surfaces.	– For bonding FOAMGLAS® Slabs / Boards to absorbent and non-absorbent surfaces.	– For bonding FOAMGLAS® Slabs / Boards to absorbent and non-absorbent surfaces. – Surface coating for slabs.
Form of delivery	Container with 28 kg (21 kg black component + 7 kg powder component)	Container with 28 kg	Container with 25 kg	Container with 32 kg (24 kg black component + 8 kg powder component)
Consumption	– Full coverage, complete bonding with filled joints: app. 3.5 to 4.5 kg / m² – Spot bonding: app. 2.5 kg / m² – Surface coating: app. 1.5 kg / m²	– Full coverage, complete bonding with filled joints: app. 4.0 to 6.0 kg / m²	– Full coverage, complete bonding with filled joints: app. 5.0 to 7.0 kg / m² – Bonding of waterproofing membrane: app. 2.0 kg / m²	– Full coverage, complete bonding with filled joints: app. 5.0 to 7.0 kg / m² – Surface coating: app. 2.0 kg / m²

Adhesives and Coatings

Product data

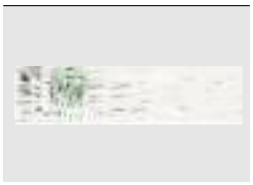
	PC® 11	PC® PITTCOTE 404	PC® 160
Type	Single component adhesive	Highly elastic acrylic latex coating	Highly flexible special tile cement
Basis	Bitumen solvent mixture with extenders	Liquid mixture of acrylic resin and extenders	– Component A: Sand / cement – Component B: Liquid synthetic resin Mixing ration A:B = 6:1
Consistency	pasty	pasty	pasty / liquid
Applicable temperature	-5 °C to +40 °C	-35 °C to +80 °C	-20 °C to +30 °C
Processing temperatures (air + surface)	+5 °C to +40 °C	at least +5 °C	+5 °C to +30 °C
Processing time	–	app. 3 to 4 hours	app. 1 hour
Drying time	app. 5 to 30 minutes	app. 3 hours	app. 10 minutes
Dehydration time	several days	app. 48 hours	app. 48 hours
Density	1.15 kg / dm³	app. 1.30 kg / dm³	–
Colour	black	– black – white	– Component A: light grey – Component B: white
Water vapour diffusion resistance figure	μ = app. 50 000	μ = 2500	–
Water solubility	insoluble	partially	mixable
Solvents	few	none	none
Storage	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.
Storage time	See label for expiry date	See label for expiry date	See label for expiry date
Area of application	– For bonding FOAMGLAS® Slabs/Boards on profiled metal sheets. The 3 kg item is used in conjunction with the air operated pump, see page 18.	– Weather-resistant surface layer with fabric lining PC® FABRIC 79P on FOAMGLAS® slabs.	– PC® 160 is a highly flexible special tile cement for fabric-reinforced coating on FOAMGLAS® slabs and final tile bonding on the previously coated surface.
Form of delivery	Container with 28 kg 3 kg sausage / 8 pcs per unit	Container with 25 kg	– Component A: 25 kg bag – Component B: 4.2 kg pail
Consumption	– For 8 adhesive strips per meter: app. 1.0 kg / m² – 300 g / m²	app. 2.5 to 3.5 kg / m²	– 3 mm notches: app. 1.4 kg / m² – 4 mm notches: app. 1.9 kg / m² – 5 mm notches: app. 2.5 kg / m² – 6 mm notches: app. 3.2 kg / m²

Rendering and Coatings

Product data

				
	PC® 164	**PC® 78**	**PC® 74 A2**	**PC® 140**
Type	Thin-bed coating	Final rendering	Mineral coating composition	Thin-bed coating composition
Basis	Dispersion adhesive on a liquid polymer dispersion base as well as mineral extenders, sands and additives	Copolymer made of vinyl acetate, vinyl chloride and ethyl, as well as calcite sands and other auxiliary materials	Dry material made of a mixture of special sands, cement and lime hydrate	Processed fine filler based on synthetic dispersion as per DIN 55 945
Consistency	pasty	pasty	powder	pasty
Applicable temperature	-20 °C to +35 °C	-10 °C to +50 °C	-30 °C to +80 °C	+5 °C to +35 °C
Processing temperatures (air + surface)	+5 °C to +25 °C	+5 °C to +25 °C	+5 °C to +35 °C	+5 °C to +35 °C
Processing time	15 – 20 minutes (surface)	15 – 20 minutes (surface)	app. 3 to 4 hours	20 to 30 minutes
Drying time	Between 20 minutes and several hours (depending on surrounding moisture)	Between 20 minutes and several hours (depending on surrounding moisture)	Between 20 minutes and several hours (depending on surrounding moisture)	Between 20 minutes and several hours (depending on surrounding moisture)
Dehydration time	app. 3 to 5 days depending on building moisture	app. 24 – 72 hours depending on building moisture	app. 24 – 72 hours depending on building moisture	app. 24 – 72 hours depending on building moisture
Density	app. 1.70 kg / dm³	app. 1.70 kg / dm³	app. 1.38 kg / dm³	–
Colour	white	natural white	light gray	natural white
Water vapour diffusion resistance figure	μ = 3000	μ = 150	μ = 15	–
Water solubility	insoluble	insoluble	partially	soluble
Solvents	none	none	none	none
Storage	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.	Store undercover in a cool, dry, shaded, frost-free location, protected from direct heat.
Storage time	See label for expiry date	See label for expiry date	See label for expiry date	See label for expiry date
Area of application	– Basic coating with fabric lining PC® 150 on FOAMGLAS® Slabs for ceilings and walls.	– Final rendering	– Non-combustible coating with fabric lining PC® 150 on FOAMGLAS®.	– Is applied per spatuala technique with a steel smoothing trowel onto the previously primed surface. Once dry, the prepared surface can be smoothed by wetting and rubbing with a suitable tool.
Form of delivery	Container with 25 kg	Container with 25 kg	Sacks with 25 kg	Container with 25 kg
Consumption	– As a primer layer: app. 3.5 kg / m²	– Grading: 1.0 mm: app. 1.0 to 1.5 kg / m², 1.5 mm: app. 1.7 to 2.2 kg / m², 2.0 mm: app. 2.5 to 3.2 kg / m², 3.0 mm: app. 3.7 to 4.5 kg / m²	app. 3.5 kg / m²	– As coating: app. 1.5 kg / m² per mm of layer density

Accessories



PC® 150 Glass fabric

Types / Description:
Coarse-meshed glass fabric with styrene acrylic

Surface (m^2 per roll): 50 m^2

Operating temperature:
from -35 °C to +80 °C

Processing temperatures:
at least 0 °C

Weight: 165 g / m^2

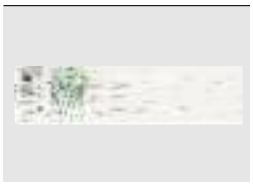
Meshes / dm^2: 500

Mesh width: 3.6 x 3.4 mm

Thread thickness: 0.40 mm

Tensile strength: longitudinal (warp): 42 N / mm

Longitudinal strength: transverse (weft): 38 N / mm



PC® FABRIC 79P

Types / Description:
Coarse-meshed polyester fabric

Surface (m^2 per roll): 46 m^2

Operating temperature:
from -35 °C to +80 °C

Processing temperatures:
at least 0 °C

Weight: 90 g / m^2

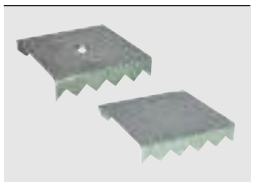
Meshes / dm^2: 500

Mesh width: 3.5 x 3.5 mm

Thread thickness: 0.60 mm

Tensile strength: longitudinal (warp): 6.5 N / mm

Longitudinal strength: transverse (weft): 5.3 N / mm



PC® SP 150 / 150 Serrated Plates, galvanized

Used to attach:
– Metal roof covering (without holes)
– Façade's subconstructions (with punched holes, ø 10.2 mm)

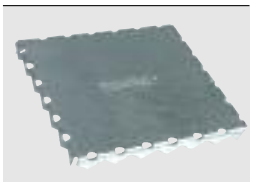
Size:
150 x 150 mm

Sheet density:
1.5 mm

Consumption: Depending on type of application

Packaging unit:
Cartons with 50 pieces

Storage: Store dry and free of moisture.



PC® SP 200 / 200 Serrated Plates, galvanized

Used to attach:
– Metal roof covering

Size:
200 x 200 mm

Sheet density:
1.5 mm

Consumption: Depending on type of application

Packaging unit:
Cartons with 25 pieces

Storage: Store dry and free of moisture.

Armanet® Dista by Bekaert

Types / Description:
Heavily galvanized mesh panel with indentations (spacers)

Size:
60 x 200 cm / 100 x 200 cm

Surface (m^2 per unit):
24 m^2 / 40 m^2 (per bundle)

Packaging unit: Bundle (20 mesh panels)

Mesh width: 16 x 16 mm

Diameter: < 1.05 mm

Tensile strength: longitudinal 600 N / mm

Longitudinal strength: transverse min. 300 N / mm

Use: As a plaster support for interior and exterior plastering and rendering.

PC® anchor F

Description:
Mounting bracket in stainless steel. Hidden fixing bracket for fixing FOAMGLAS® slabs on ceilings and walls.
Suitable base surfaces: concrete, masonry, brickwork, blockwork, timber and metal.
In case of hollow block bricks or ventialted bricks contact info@fomglas.co.uk

Width of bracket:
3 sizes are available, see data sheet for further information.

Consumption on walls:
2 Parts / m²
Consumption on ceilings:
4 Parts / m²

Packaging unit:
Box with 100 pieces; supplied with suitable hammer-in fixings

Storage: Store dry and protected from moisture.

A-ISOL Insulation Fixing

Description:
Polyethylene insulation fiing with coarse threads, flat head, a setting and screw receptacle.
A-ISOL, with receptacle for screw 4.5 - 5.0 mm Ø

Types:
A-ISOL **50**
A-ISOL **85**
A-ISOL **120**
A-ISOL **155**

Use:
For fastening additional layers of FOAMGLAS® on top of the base layer

Installation:
Pre-insert

Advantages:
- No thermal bridges
- Possible to join 2 rigid FOAMGLAS® boards, slabs or blocks with A-ISOL
- Fast efficient installation with common tools
- A-ISOL with receptacle for SW 5 bit

Consumption:
Varies, please contact info@foamglas.co.uk

Packaging unit:
Box with 50 pieces

Storage: Store dry

Cold Adhesive Spreader

Description:
Notched rubber spreader **Type 6**
Note: Broom type handle is not included

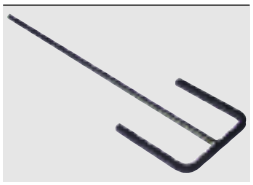
Use:
For applying PC® 500 and PC® 58 adhesive to substrate

Compressed Air Operated PC® 11 Adhesive Applicator

Use:
Compressed air operated PC® 11 adhesive applicator.

Compressor and air hose to be provided by others.
The compressor type required is: 10 bar, 145 psi, 24 litre receiver, 220 l/min., 8 cfm.

The air operated pump applicator for PC® 11 can be hired, contact info@Foamglas.co.uk



Mixing bar

Use:
Insert into an electric drilling machine (at least 800 r.p.m.) for mixing of single or two-component products.

PITTSEAL® FT Applicator

Description:
A multi-bead fan tip applicator.

Use:
Fan-tipped applicator for use with PITTSEAL® Sealants

Unit:
1 box, 10 nozzles

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