FOAMGLASS 65

Foamed Glass Aggregate 16 - 65mm for construction & infrastructure

Foamglass 65 is an extremely lightweight aggregate for use in the civil engineering and infrastructure sector as a lightweight fill and sub-layer material. Foamglass aggregate is manufactured from waste container glass and a small amount of foaming agent. Foamglass prevents the land-filling of reject glass generated at glass recycling plants. Any organic impurities in the raw material is removed during the production process and is also recycled. Thanks to its closed cellular structure, Foamglass is a high performance, low weight aggregate with excellent thermal insulation.

Environmentally Friendly

Foamed Glass aggregate is made from 100% recycled glass, it's an eco-friendly material that supports recycling and reduces landfill waste.

Superior Thermal Insulation

Foamed glass aggregate offers excellent thermal insulation, ideal for building foundations and green roofs, reducing energy costs.

Lightweight and High Strength

Provides high strength and stability, perfect for roads and railways, reducing ground pressure and preventing settlement. Foamglass is 85% lighter than traditional aggregates.

Excellent Drainage & Filtration

Ideal for storm water management and landscaping, promoting efficient water infiltration and reducing runoff.

Reduces Construction Costs

Minimises the need for heavy machinery and extensive labour due to its lightweight and easy-to-handle properties. This leads to significant cost savings on large-scale infrastructure projects.

Faster Construction Process

The lightweight nature of Foamglass allows for quicker handling and installation, accelerating the overall construction timeline. This efficiency is particularly beneficial in time-sensitive projects.

Reduces Water Runoff

Efficiently manages water runoff, promoting sustainable water practices. It is crucial in urban areas for storm water management, supporting urban water systems' health and reducing flooding risks.

Improves Structural Stability

Reduces structural stress and prevents subsidence, enhancing the durability of foundations and supporting structures Its lightweight nature minimises soil pressure and ground movement.

85% Lighter Than Traditional Aggregates

99% Recycled Glass in final product

10m+ Glass Bottles Recycled Every Year

Typical Applications

- Frost-resistant layers
- Capillary break layers
- Building foundations
- Lightweight backfill
- Retaining walls
- Embankments & bridge abutments
- Floors - sub, intermediate and upper
- Road construction
- Drainage layers
- Pipe infill / support

Technical Details

Foamglass Aggregate is a lightweight gravel made of cellular foamed glass for unbound and bound applications according to BS EN 13055. Also for use in for use in civil engineering work & road construction to BS EN 13242.

See overleaf for physical and technical properties.

www.foamed-glass.uk

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Technical Data

Characteristic		Value	Reference
Technical standards		BS EN 13055 BS EN 13242	Lightweight Aggregates Aggregates for unbound and hydraulically bound materials for use in civil engineering work & road construction
Loose Bulk Density (dry)		180 - 220 kg/m^3	EN 1097-3
Compaction Ratio (dry)		1.20 - 1.25	Typical, production data
Aggregate Size		16 - 65 mm	EN 933-1
Particle Shape		Irregular, angular	Production data
Particle Density	Apparent Oven Dried Surface Saturated	369.7 kg/m^3 348.6 kg/m^3 405.8 kg/m^3	EN 1097-6
Water Absorption	at 5 mins at 60 mins at 24 hours at 28 days	2.73% 2.73% 16.4% 32.2%	EN 1097-6
Capillary Water Suction Height		150 - 170 mm	EN 1097-10
Confined Compressive Strength	10% compaction 20% compaction	> 0.5 N/mm^2 > 1.0 N/mm^2	EN 1097-11
Bulk Crushing Resistance		> 0.10 N/mm^2	EN 13055 Annex C Procedure 1
Resistance to Disintegration		0.97%	EN 1367-8
Freeze Thaw Resistance		Durable and frost resistant	EN 1367-7
Angle of Repose		44° - 54°	Production data
Thermal Conductivity, dry, 10°C		0.105 W/mK	EN 12667 / EN 12939
Resistance to Fire		Incombustible, Class A1	EN 13501-1 in accordance with Commission Decision 96/603/EC as amended by Decision 2000/605/EC
Purity		< 1% organic substances	Production data
Sulphate as SO_3		0.22%	EN 1744-1
Sulphate as SO_4		0.26%	EN 1744-1
Chloride		0.00%	EN 1744-1
Carbon Footprint		~ 45 - 55 CO_2 eq / m^3	Indicative GWP data based on verified data from equivalent products; EPD due mid-2026

- We operate in accordance with our ISO 9001 Quality and ISO 14001 Environmental management systems and certification is underway.
- Foamglass is produced from End of Waste raw material , is completely inert and contains no dangerous substances. A comprehensive programme of leach-testing is underway to ensure compliance and further detail will follow in due course.

Site Work

Installation:
Ensure a flat, uniform laying surface. Use a non-woven geotextile layer as a separation membrane. Foamglass can be tipped directly and spread by hand using rakes ensuring as level a surface as Possible. Avoid loading with traffic until the layer is fully compacted.

Compaction:
Typically 1.3:1 and requires minimal compaction; can be installed using standard construction equipment being careful to avoid over-compaction. For layers thicker than 300mm, placing and compaction should be done in two or three separate layers to ensure uniformity.

Layer thickness:
A Foamglass layer offers an excellent and simple capillary break against the rising of groundwater. With a capillary rise height of 100-200mm, the recommended layer thickness is between 300-600mm typically.

Packaging and Delivery

Bulk:
Delivered in large capacity trailers to suit the application.
Typical load size 50 - 100 m^3. Walking-floor trailers recommended.

Bags:
Available in 1m^3, 1.5m^3 and 2.0m^3 big bags.

Storage and Handling

Foamglass is inert and non toxic. Employ standard PPE measures when handling Foamglass aggregate and take measures to minimise dust generation. There are no special requirements for storage but store in as clean and dry a position as possible to maintain quality. Bagged materials should be stored undercover or protected from the weather.

For further details, datasheets, certifications and safety datasheets, please visit our website.

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