



Foamglas® Blocks

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Detailed description

Foamglas® is a high-quality thermal insulation material manufactured primarily from recycled glass (>60%) and natural raw materials.

Applications:

- Warm roofing systems.
- Green roofs, parking decks.
- Roof decks.
- Ventilated façades.
- Indoor insulation.
- Floor insulation in industrial environment.
- Ground and perimeter insulation.

Benefits:

- Waterproof, consisting of closed cell cellular glass. Does not absorb any moisture and does not swell.
- Cannot rot and is pest-proof because it is inorganic.
- High compressive strength even with long-term loads due to its cell geometry without deformation.
- A1 non-combustible (to BS EN 13501), consisting of pure glass. In the event of fire, does not develop smoke or toxic gases.
- Vapour-tight, consisting of hermetically sealed glass cells. Constant thermal insulation value over decades. Prevents the penetration of radon.
- Dimensionally stable; neither shrinks nor swells. No warping, buckling or creep. Low coefficient of expansion, nearly equal to that of steel and concrete.
- Resistant to organic solvents and acids because it consists of pure glass.
- Free of environmentally damaging flame-retardants, protection agents, propellants and consists of over 60 % of high value recycling glass. Only regenerative electricity is used in the manufacturing process.

Product guidance - As Standard

Thermal conductivity:

- Foamglas® PC® Perisave Base Block: ≤ 0.038 W/m²K.
- Foamglas® PC® Perisave Marginal Stop: ≤ 0.038 W/m²K.
- Foamglas® Ready Block T4+: ≤ 0.041 W/m²K.

Options

FOAMGLAS®



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Technical characteristics:

- Composition: Pure glass with a high percentage of recycled glass, inorganic and without binding agent additions.
- Applicable limit temperatures: -260 to +430 °C.
- Melting point (cf. DIN 4102-17): >1000 °C.
- Water absorption: 0 (aside from the surfaces in the area of the attached cells).
- Biological influences: Resistant against microbes as well as against rodent and piercing animals, insects/ vermin.
- Water vapour diffusion resistance figure: $\mu = \infty$.
- Capillarity and hygroscopicity: None.
- Fire behaviour (BS EN 13501-1): A1.
- Dimensional stability: Does not swell and shrink, warp or creep.
- Airborne sound reduction: 28 dB at 100 mm thickness (in the mid range frequency area).

Product specification

Manufacturer

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- Product reference**
- Foamglas® PC® Perisave Base Block - Universal base element for use in Passivhaus construction.
 - Foamglas® PC® Perisave Marginal Stop - Marginal stop in concrete construction. Fulfils requirements according to the Passivhaus standard.
 - Foamglas® Ready Block T4+ - Green Guide Rating: A.

Thickness [_____]