



Foamglas® Boards

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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® Ready Board T4+: $\leq 0.041 \text{ W/m}^2\text{K}$.
- Foamglas® Wall Board F: $\leq 0.050 \text{ W/m}^2\text{K}$.
- Foamglas® Wall Board S3: $\leq 0.045 \text{ W/m}^2\text{K}$.
- Foamglas® Wall Board T4+: $\leq 0.041 \text{ W/m}^2\text{K}$.
- Foamglas® Wall Board W+F: $\leq 0.038 \text{ W/m}^2\text{K}$.

FOAMGLAS®



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Options

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® Ready Board T4+ - Green Guide Rating: A.
 - Foamglas® Wall Board F - Green Guide Rating: B.
 - Foamglas® Wall Board S3 - Green Guide Rating: A.
 - Foamglas® Wall Board T4+ - Green Guide Rating: A+.
 - Foamglas® Wall Board W+F - Green Guide Rating: A+.

Thickness [_____]