



1.1.2 Floor Insulation (load bearing) with Waterproofing Membrane beneath Structural Slab

Generated on 30.05.2020

Detailed description

Properties:

- Waterproof.
- High compressive strength without deflection or movement.
- Non-combustible.
- Impervious to water and water vapour.
- Sealed cellular structure.
- Dimensionally stable.
- Acid resistant.
- Easily cut to shape.
- Resistant to vermin.
- Recycled content scrap glass: Minimum 60%.
- Ozone Depletion Potential (ODP): <1%.
- Global Warming Potential (GWP): Zero.
- GreenSpec rating, see 'Cellular Glass' or 'Foamed Glass'.
- Green Guide rating, see 'Cellular Glass'.

Advantages:

- Quality: Systems with high quality materials; management by systematic site inspections and professional consulting.
- Cost efficiency: The high durability preserves maximum value and ensures minimal maintenance costs.
- Sustainability: Optimum insulation performance and protection against moisture for future generations. Scrap can be reclaimed and re-cycled to make new Foamglas.
- Insulation performance: Insulation performance is permanent; ageing does not take place. Use above and below ground, unaffected by moisture, humidity and compressive loads. Proven to retain its thermal and vapour control characteristics for > 50 years.
- No thermal bridging: Fully bonded insulation system, zero fixings prevent thermal bridging, and exposed fixings.
- Non-toxic: Foamglas cellular glass contains no toxic substance, does not contaminate water or the ground, in cases of fire, does not develop fumes or toxic gases.
- Sealed structure and non-hydroscopic: Each cell has a glass wall, giving the unique structural strength, vapour tight and non-hydroscopic properties.
- A separate vapour barrier is not required: With its purpose manufactured adhesives, Foamglas is suitable for extreme humidity



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environments and gives control of the vapour drive in any direction. Foamglas is an insulation and vapour barrier in one single material.

- High compressive strength: Capability to withstand high compressive loads without deflection or movement.
- Dimensional stability: Very low rates of thermal movement, mechanical fixings are not required to prevent delamination from the parent structure.

Foamglas recommended build-up:

- Primary layer: Compacted hardcore or subsoil.
- Lean concrete mix.
- Levelling material: Chippings, stabilized sand, or liquid mortar.
- Foamglas insulation.
- Bituminous waterproofing membrane.
- Separating layer.
- Concrete slab.

Product guidance - As Standard

Characteristics:

- Thermal performance is permanent and never changes.
- Manufactured from recycled glass (minimum 60%) and natural raw materials which are available in abundant supply - sand.
- The insulation is totally inorganic, contains no ozone depleting propellants (CFCs, HCFCs etc), flame resistant additives or binders; VOC or other volatile substances.
- For substrate quality and suitability, see Technical Guide TG1.

Foamglas® Ready Board (T4+):

- Density (EN 1602, ± 10%): 115 kg/m³.
- Length (EN 822, ± 5 mm): 1200 mm
- Width (EN 822, ± 2 mm): 600 mm.
- Thermal conductivity (EN ISO 10456): ≤ 0.041 W/m·K.
- Reaction to fire (EN 13501-1): Core material Euroclass A1.
- Compressive strength (EN 826 annexe A): ≥ 600 kPa.
- Flexural modulus of elasticity (EN12089): 700 MN/m².
- Bending strength (EN 12089): ≥ 450 kPa.
- Tensile strength (EN 1607): ≥ 100 kPa.
- Thermal expansion coefficient (EN13471): 9 x 10⁻⁶ K.
- Impervious to water vapour (EN ISO 10456): μ=∞ infinity.
- Ozone Depletion Potential (ODP): <1%.
- Global Warming Potential (GWP): Zero.
- Green Guide Rating A.
- GreenSpec listing see 'Cellular Glass' or 'Foamed Glass'.
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Manuf to Environmental Management System ISO14001.

- CEN Keymark: 001-BK-516-001-0029-T00A.
- CPR DOP: 120200015.

Product specification

Manufacturer

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Product reference 1.1.2 Floor Insulation (load bearing) with Waterproofing Membrane beneath Structural Slab

Insulation

- Type Foamglas® Ready Board (T4+)
- Thickness
 - 40 mm
 - 50 mm
 - 60 mm
 - 70 mm
 - 80 mm
 - 90 mm
 - 100 mm
 - 110 mm
 - 120 mm
 - 130 mm
 - 140 mm
 - 150 mm
 - 160 mm
 - 170 mm
 - 180 mm