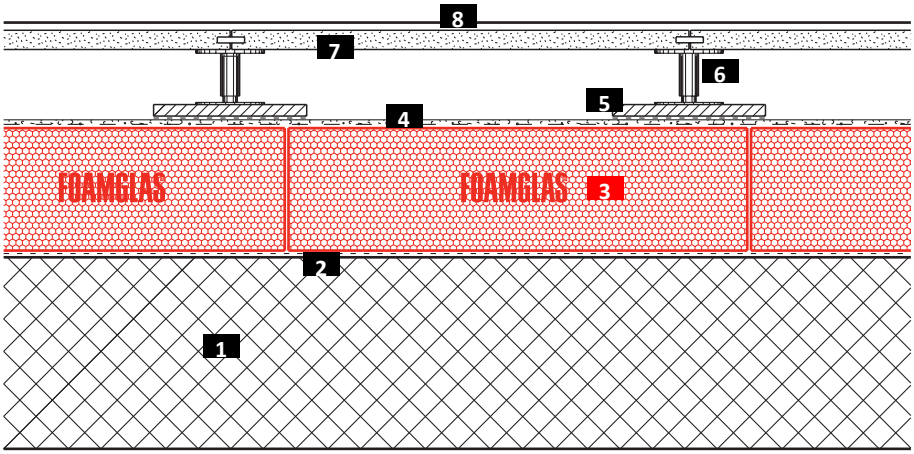
Interior floor insulation on concrete with raised access floor system

FOAMGLAS® with hot bitumen

FOAMGLAS® Building

Schematic drawing

System 3.1.13



1) Concrete slab
2) Primer coat
3) FOAMGLAS® laid in hot bitumen
4) Coat of PC® 74 A1
with reinforcing mesh PC®150
5) Load spreading plates
6) Support pedestals
7) Flooring panels
8) Floor finish

FOAMGLAS® product propreties

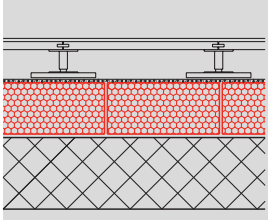
Waterproof – Resistant to vermin – High compressive strength – Non-combustible – Impervious to water vapour – Dimensionally stable – Acid resistant – Easily cut to shape – Ecological

Advantages of the FOAMGLAS® system

- Quality: Systems with high quality materials. Quality management by systematic site inspections and professional consulting.
- Cost efficiency: The high durability preserves maximum value and guarantees minimal maintenance costs.
- Sustainability: Optimum insulation and protection against moisture for generations.
- Safety: Substrate with high compressive strength and free of deformation, preventing flaws and flooring damages. Cellular glass contains no toxic substances and, in case of fire, does not develop fumes or toxic gases.
- Functionality: Insulation as well as vapour, radon and capillary barrier in one single functional layer.

Recommendations for architect

- Normally used:
  FOAMGLAS® T3+, T4+, S3, F (450 mm / 600 mm).
- Insulation thickness to meet building regulations or the project-specific U-value requirements. Please also consult our product overview. It contains information on all our products, their field of application and their specific properties.
- For the use of FOAMGLAS® under load bearing conditions, the project / structural engineer must check the admissible loads.
- The flatness and the general conditions of the support are important criteria when using FOAMGLAS® (see TG1). Please contact our Technical Department to verify the criteria for the substrate.
- For a technically correct implementation, relevant standards and guidelines must be observed.



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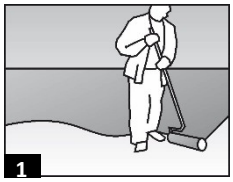
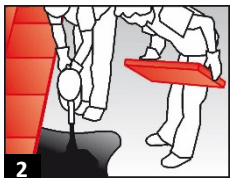
Installation instructions

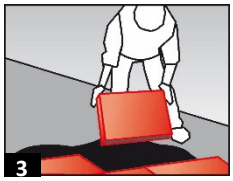
- Bituminous primer coat applied with roller (or spraying equipment) on the clean and dry concrete surface, coverage ~ 0.3 l/m2. (1)
- Apply the FOAMGLAS® slabs fully bonded to the substrate with hot bitumen poured from a bitumen can, with staggered and bitumen-filled tight-butted joints. Coverage ~ 5.0 – 7.0 kg/m2, dependent on the thickness of the insulation:

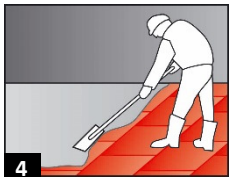
Dip a short as well as a long side of the slab in the poured bitumen and press into position against already laid slabs. Surplus bitumen spilt at the side must be removed with the next slab in order to avoid irregularities. (2 / 3)

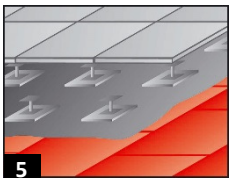
- Apply a base coat of PC® 74 A1 with a stainless steel trowel, coverage ~3.0–7.0 kg/m2. Embed the alkali-resistant reinforcing mesh PC® 150 (overlapping joints ~ 100 mm) flatly and evenly, then smooth the surface. (4)
- Allow waiting time of ~ 3 – 5 days (dependent on ambient temperature and humidity). - Set the support pedestals for the raised floor sytem after bonding the load spreading plates. Spacing of the support pedestals and supporting panels dependent on loads and system-specific requirements. (5)











Recommendations for the contractor

- The build up and tolerances of the substrate must be in accordance with relevant standards and guidelines.
- Substrate and ambient temperature should not be below + 5° C.
- Sensitive components provided by other suppliers must be protected against blobs of hot bitumen and the effect of heat.
- Please contact our technical consultants; they can help you by providing support or on-site assistance free of charge.

Pittsburgh Corning UK Limited
31-35 Kirby Street,
London, EC1N 8TE
Phone +44 (0)20 7492 1731
Fax +44 (0)20 7492 1730
info@foamglas.co.uk