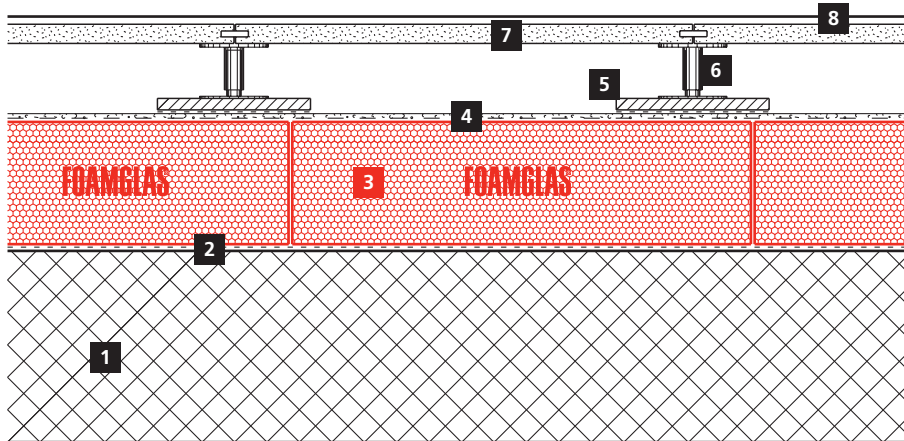


Interior floor insulation on concrete with raised access floor system

FOAMGLAS® slabs with hot bitumen

Schematic drawing



System 3.1.7

- 1 Concrete slab
- 2 Primer coat
- 3 FOAMGLAS® slabs, laid in hot bitumen
- 4 Coat of PC® 74A2 with reinforcing mesh PC® 150
- 5 Load spreading plates
- 6 Support pedestals
- 7 Flooring panels
- 8 Floor finish

FOAMGLAS® product properties

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

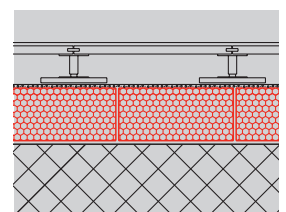
Advantages of the FOAMGLAS® system

- **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 architects

- Normally used: FOAMGLAS® slabs T4+, S3 or F, size 450/600 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 substrate 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.**

Solutions for technical details and specification clauses on request. Further proposals and solutions are available any time from our technical consultants. **Updated: November 2010.** We explicitly reserve the right to change the technical specifications. The current values can be found on our website under: www.foamglas.co.uk/building/applications



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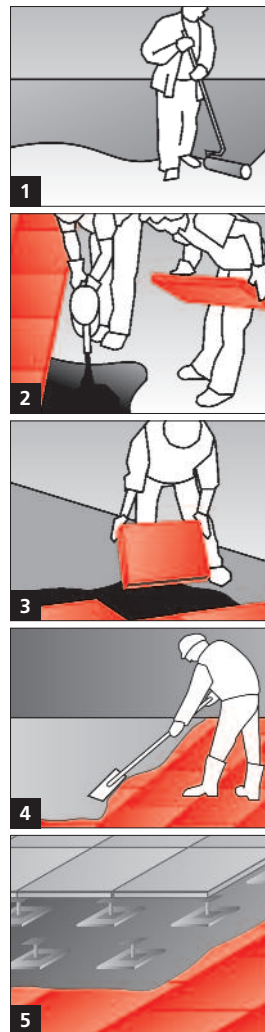
System 3.1.7

Installation instructions

- Bituminous primer coat applied with roller (or spraying equipment) on the clean and dry concrete surface, coverage $\sim 0.3 \text{ l/m}^2$. (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 $\sim 5.0\text{--}7.0 \text{ kg/m}^2$, 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®74A2 with a stainless steel trowel, coverage $\sim 3.5 \text{ kg/m}^2$. Embed the alkali-resistant reinforcing mesh PC®150 (overlapping joints $\sim 100 \text{ mm}$) flatly and evenly, then smooth the surface. (4)
- Allow waiting time of $\sim 3\text{--}5$ days (dependent on ambient temperature and humidity).
- Set the support pedestals for the raised floor system 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 $+5^\circ\text{C}$.
- 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.**



The technical guidelines for the application and the installation of FOAMGLAS® are based on historical experience and general site practice. They do not reflect individual examples. We therefore assume no liability as to the completeness and the suitability for a specific project. Furthermore, our liability and responsibility are subject to our general conditions of sale which are not extended either by this technical data sheet nor by the consulting of our technical sales representatives.

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