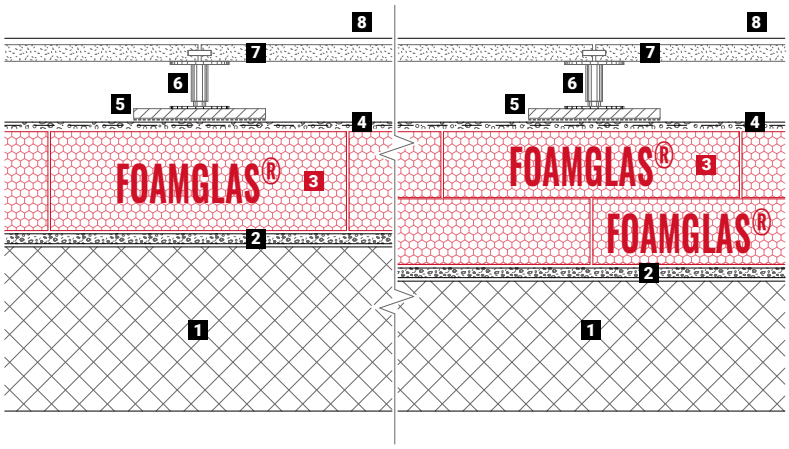
Interior floor insulation on concrete with raised access floor system

FOAMGLAS® slabs in dry construction

Schematic drawing **System 3.1.15**



1. Concrete slab
2. Sand levelling layer
3. FOAMGLAS® slabs loosely laid
4. Top coat of PC® 74A1 with reinforcing mesh PC® 150
5. Load spreading plates
6. Support pedestals
7. Flooring panels
8. Floor finish

Features and advantages of the FOAMGLAS® solutions

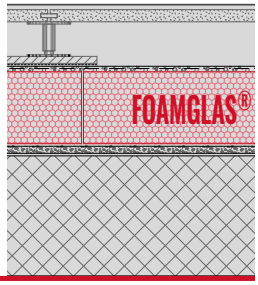
- **High Compressive Strength:** Tested to Annexe A of EN826 with a compressive strength of 500 - 1600* kPa without deformation – please see specific Product Data Sheets for further guidance.
- **Long Term Performance:** The durability of FOAMGLAS® insulation results in long-term dimensional stability and time-tested performance.
- **Unaffected by Groundwater:** Contact with groundwater has no impact on the physical characteristics of FOAMGLAS® insulation including key criteria such as compressive strength and thermal performance.
- **Chemically Resistant:** Suitability for use on brownfield sites with known levels of ground contamination can be considered – please request chemical resistance data.
- **Combustibility:** Euroclass A1 options are available for the different FOAMGLAS® insulation grades (T3+, T4+, S3 and F) dependent upon application.

*The application of a suitable factor of safety is recommended when undertaking structural assessment of product performance.

Recommendations for architect

Normally used:
FOAMGLAS® T3+ slab, FOAMGLAS® T4+ slab, FOAMGLAS® S3 slab, FOAMGLAS® F slab (450 x 600 mm).
FOAMGLAS® T3+ (1200 x 600 mm).

- Insulation thickness should meet building regulations or project-specific u-value requirements.
- For further information regarding FOAMGLAS® products or any other specific properties, please consult our PDS.
- Please refer to Technical Guidelines (TG1) for the general conditions of the supporting substrate and requirements when installing FOAMGLAS® insulation.
- For technically correct installation, relevant standards and guidelines must be observed.
- For construction sites with a high groundwater table, high-water pressure or specific ground conditions, specialist advice should be sought.
- Please contact our Technical Department for support.



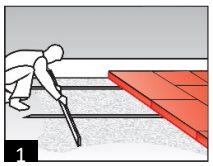
Interior floor insulation on concrete with raised access floor system

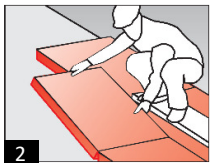
FOAMGLAS® slabs in dry construction

System 3.1.15

Installation instructions

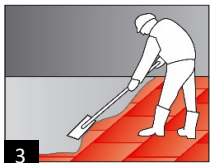
- Apply a thin layer of sand to level off irregularities. Smooth surface evenly. (1)
- Install the FOAMGLAS® slabs with staggered and tight-butted joints (2). For double layer systems, all joints must be installed with staggered joints in each layer and between the different layers.
- Apply a top coat of PC® 74A1 with a stainless steel trowel, coverage ~3.0 – 7.0 kg/m². (3)
- Embed the alkali-resistant reinforcing mesh PC® 150 (overlapping joints ~ 100 mm) flat and evenly and smooth the surface afterwards.
- Allow curing time of ~ 3 – 5 days (subject to ambient temperature and humidity).
- Set and bond the load spreading plates before installing the pedestals.
- Install the support pedestals for the raised access floor system. Spacing of the support pedestals and supporting panels subject to loads and system-specific requirements and manufacturer's specifications. (4)

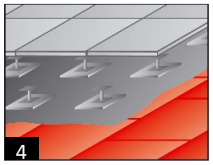




Recommendations for the contractor

- The build up and tolerences of the substrate must be in accordance with relevant standards and guidelines.
- Substrate and ambient temperature should not be below + 5° C.
- Adequate measures should be taken in order to avoid any risks of damage by other contractors during construction.
- Please contact our Technical Department for support.





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