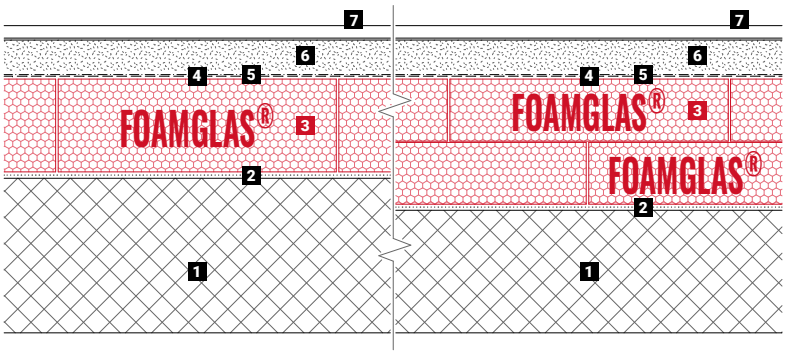
Interior floor insulation on levelling compound with cement screed

FOAMGLAS® slabs with cold adhesive PC® 58

Schematic drawing **System 3.1.2**



1. Concrete slab
2. Primer coat
3. FOAMGLAS® slabs fully bonded with PC® 58
4. Top coat of PC® 58
5. Separating layer (by others)
6. Cement / anhydrite screed
7. Floor finish

Features and advantages of the FOAMGLAS® solutions

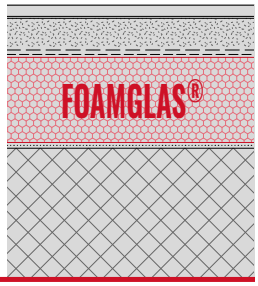
- **High Compressive Strength:** Tested to Annexe A of EN826 with a compressive strength of 500 - 1600* kPa without deformation – please see specific Product Data Sheets for further guidance.
- **Long Term Performance:** The durability of FOAMGLAS® insulation results in long-term dimensional stability 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, T4+ slab, S3 slab, F slab (600x450 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.



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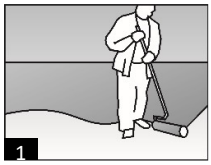
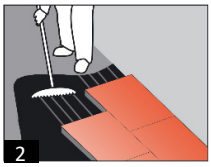
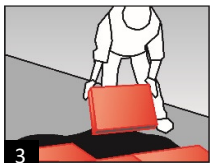
System 3.1.2

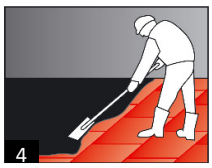
Installation instructions

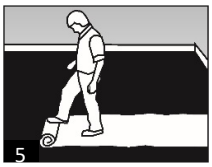
- Primer PC® EM (or emulsion PC® 58 diluted with 10 parts of water) applied with roller on the dust-free surface. Coverage ~ 0.3 l/m2. (1)
- Install the FOAMGLAS® slabs fully bonded to the substrate with cold adhesive PC® 58, with staggered and tightly butted joints filled with cold adhesive PC® 58. Coverage ~ 5.0 – 7.0 kg/m2 , subject to the thickness of the insulation.
- Apply cold adhesive PC® 58 and spread with a notched rubber spreader to one short and one long side of the FOAMGLAS® slabs. Apply cold adhesive to the entire surface of the board and push diagonally into the open corner. (2 / 3) For double layer systems, all slabs must be installed with staggered joints in each layer and between the different layers.
- Install the top coat of cold adhesive PC® 58, coverage ~ 2.0 kg/m2 . Pour the cold adhesive and spread on the FOAMGLAS® slabs with a rubber spreader. (4)
- Allow curing time of ~ 3 days (subject to ambient temperature and humidity).
- Install the separating layer with overlapping joints. (5)
- Apply the cement or anhydrite screed, layer thickness subject to heating system and loads and manufacturer's specifications.











Recommendations for the contractor

- The build-up and substrate tolerances must be in accordance with the 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.

Owens Corning Insulation (UK) Ltd.
31-35 Kirby Street
London, EC1N 8TE
technical@foamglas.co.uk