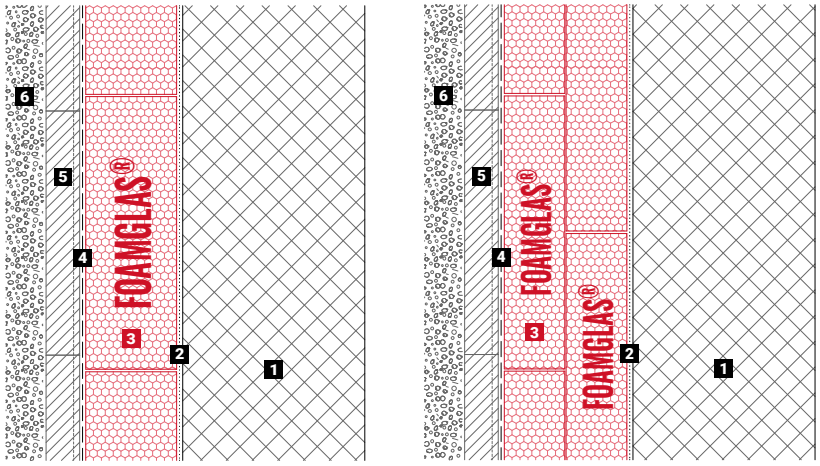
Wall insulation on concrete

FOAMGLAS® slabs with cold adhesive PC® 56

Schematic drawing **System 1.2.1**



1. Concrete wall
2. Primer coat
3. FOAMGLAS® slabs fully bonded with PC® 56
4. Top coat of PC® 56
5. Protective layer e.g. protection board or combined protection / drainage layer (by others)
6. Soil / backfill

Features and advantages of the FOAMGLAS® solutions

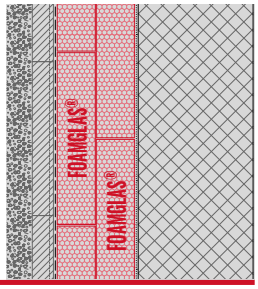
- **High Compressive Strength:** Tested to Annexe A of EN826 with a compressive strength of 500 - 1600* kPa without deformation – please see specific Product Data Sheets for further guidance.
- **Long Term Performance:** The durability of FOAMGLAS® insulation results in long-term dimensional stability 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
(600 x 450 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 Techncial Guidelines (TG3) for the general conditions of the supporting substrate and requirementents 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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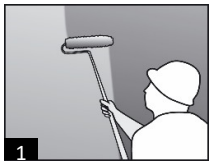
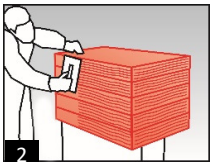
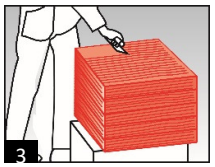
System 1.2.1

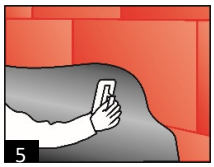
Installation instructions

- Primer PC® EM (or emulsion PC® 56 diluted with 10 parts of water) applied with roller on the dust-free surface. Coverage ~ 0.3 l/m2. (1)
- Install FOAMGLAS® slabs fully bonded to the substrate, with staggered and tightly butted joints filled with cold adhesive PC® 56. Coverage ~ 3.5 – 4.5 kg/m2, subject to the thickness of the insulation. For double layer systems, all joints must be installed with staggered joints in each layer and in between the different layers.
- Apply cold adhesive PC® 56 with a notched trowel (tooth size ~ 8 – 10 mm) to one short and one long side of the FOAMGLAS® slabs (in stacks). Apply cold adhesive to the entire surface of the slab and push diagonally into the open corner. (2 / 3 / 4)
- Top coat of cold adhesive PC® 56, coverage ~ 1.5 kg/m2. Apply the cold adhesive with the flat side of a trowel on the FOAMGLAS® slab surface and spread evenly. (5)
- Apply a protection board or combined protection / drainage layer. Backfill the excavation with care.









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.
- A topcoat should be applied immediately after the insulation has been installed. Do not leave the insulation exposed.
- Adequate measures should be taken in order to avoid any risks of damage by other contractors during construction.
- The joints of the top layer of the last course must be protected from driving rain to prevent water penetration or cold adhesive washout.
- Please contact our Technical Department for support.

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