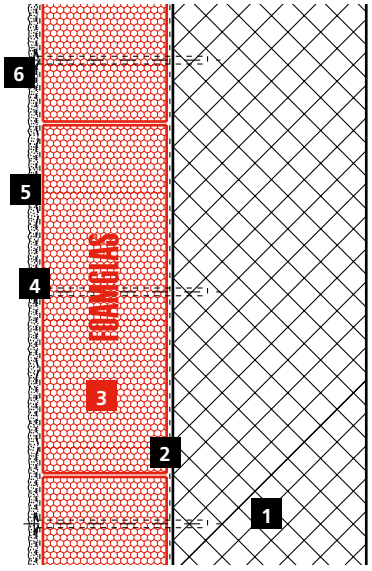
Composite façade system with a thick layer of mineral render

FOAMGLAS® slabs with cold adhesive PC® 56 and reinforcing mesh

FOAMGLAS® Building

System 2.2.1

Schematic drawing



1 Solid wall (concrete/brickwork)
2 Primer coat
3 FOAMGLAS® slabs, bonded with PC®56
4 Top coat with PC®56
5 Reinforcing mesh, mechanically fastened
6 Thick layer of render

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

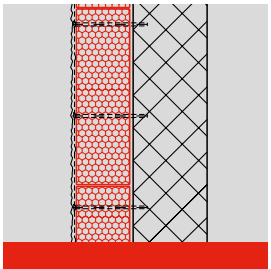
Advantages of the FOAMGLAS® system

- **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:** Compact, fully bonded insulation system preventing damages caused by damp either through condensate or water penetration. Cellular glass prevents fire spread, does not develop flaming droplets, nor fumes or toxic gases.
- **Functionality:** Insulation and vapour barrier in one single functional layer.

Recommendations for architects

- Normally used: FOAMGLAS® slabs T4+, size 450/600 mm.
- Insulation thickness to meet building regulations or 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.
- **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: April 2014.** 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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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/m^2. (1)
- Apply the FOAMGLAS® slabs fully bonded to the substrate, with staggered and tight-butted joints filled with cold adhesive PC® 56. Coverage ~ 3.5–4.5 kg/m^2, dependent on the thickness of the insulation:
  Apply cold adhesive PC® 56 with a notched trowel (tooth size ~ 8–10 mm) to one short and one long side of the FOAMGLAS® slab (in stacks). Apply cold adhesive to the entire surface of the slab and push diagonally into the open corner. Remove squeezed-out adhesive with a trowel when slightly hardened. (2/3)
- Fixing aid and mechanical fastening of the FOAMGLAS® slabs in the base area and at lintels (e. g. support bracket).
- Remove irregularities of the insulation surface with a FOAMGLAS® slab or preferably with an emery board. Remove dust from the FOAMGLAS® surface.
- Top coat of cold adhesive PC® 56, coverage ~ 1.5 kg/m^2. Apply the cold adhesive with the flat side of a trowel on the FOAMGLAS® surface and spread evenly. (4)
- Mechanical fastening of the reinforcing mesh to the substrate. (5)
- Apply a thick layer of appropriate mineral render system according to the specifications of the supplier. (6)

Recommendations for the contractor

- The build up and tolerances of the substrate must be in accordance with relevant standards and guidelines.
- Before the application of the façade system, the quality of the substrate must be checked. If needed, a levelling layer of sand/cement render must be applied in order to level off irregularities.
- Substrate and ambient temperature should not be below + 5° C.
- The joints of the top layer of the last course must be protected against driving rain in order to prevent water penetration or washing out of the cold adhesive.
- Protect sensitive components provided by other suppliers against blobs of adhesive.
- **Please contact our technical consultants; they can help you by providing support or on-site assistance free of charge.**

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