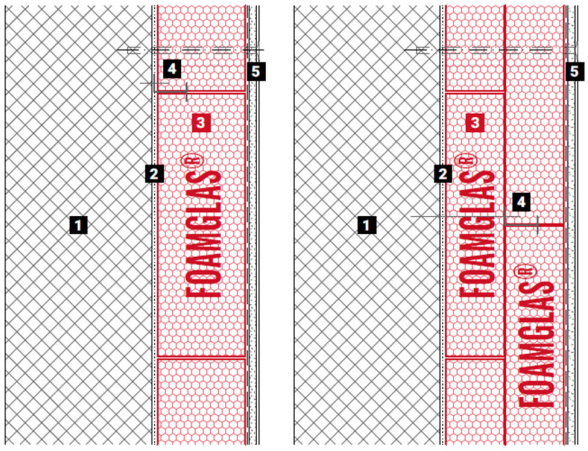
Interior wall insulation with plasterboards / fibre reinforced plasterboards

FOAMGLAS® slabs with cold adhesive PC® 56

Schematic drawing **System 3.2.7**



1. Solid wall (concrete / brickwork)
2. Primer coat
3. FOAMGLAS® slabs fully bonded with PC® 56
4. PC® F-Anchor mechanical fastening
5. Plasterboard / fibre reinforced plasterboards, bonded with PC® 56 and mechanically fastened

Features and advantages of the FOAMGLAS® solutions

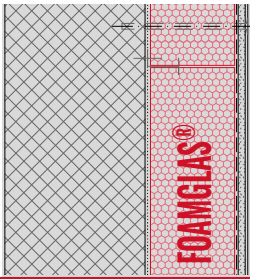
- **High Compressive Strength:** Tested to Annexe A of EN826 with a compressive strength of 500 - 1600* kPa without deformation – please see specific Product Data Sheets for further guidance.
- **Long Term Performance:** The durability of FOAMGLAS® insulation results in long-term dimensional stability 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+ slabs
(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 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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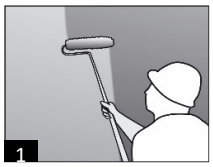
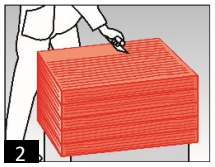
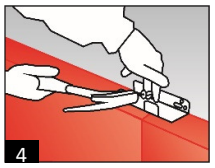
System 3.2.7

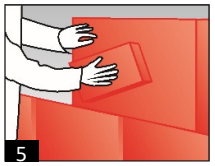
Installation instructions

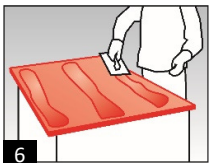
- Primer PC® EM or emulsion PC® 56 diluted with 10 parts of water, applied with a roller on the dust-free surface, coverage ~ 0.3 l/m². (1)
- Install the FOAMGLAS® slabs fully bonded to the substrate with cold adhesive PC® 56, with staggered and tightly butted joints. Coverage ~ 3.5 – 4.5 kg/m², subject to the thickness of the insulation. Apply the cold adhesive PC® 56 with a notched trowel (tooth size ~ 8 – 10 mm) to one short and one long side of the FOAMGLAS® slabs. Apply cold adhesive to the entire surface of the slab.
- Once the adhesive has been applied, install the FOAMGLAS® Slabs by applying pressure and push diagonally into the open corner. Remove the excess of adhesive with a trowel when it is slightly hardened. (2 / 3)
- Mechanical fastening of the FOAMGLAS® slabs (during application) with PC® F-Anchors, consumption: 2 pieces /m². (4) Note: if double layer system, the PC® F-Anchors in the first layer may be omitted, as the second layer will be mechanically fastened to the structure through the first layer of FOAMGLAS® insulation.
- Remove irregularities of the insulation surface by grinding with a FOAMGLAS® slabs or preferably with an emery board. Remove dust from the FOAMGLAS® slabs surface. (5)
- For double layer systems: install the second layer of FOAMGLAS® slabs fully bonded to the first layer of FOAMGLAS® slabs with cold adhesive PC® 56, with staggered and tightly butted joints and filled with PC® 56. Coverage ~3.5 – 4.5 kg/m², dependent on the thickness of the insulation. Apply the cold adhesive PC® 56 with a notched trowel (tooth size ~8 – 10 mm) on one side and one end of the slabs (in stacks). Apply cold adhesive to the entire surface of the slab and push diagonally into the open corner. Remove the excess adhesive with a trowel when slightly hardened. (2/3/4)
  Mechanical fastening of the second layer of FOAMGLAS® slabs with PC® F-Anchors, consumption: 4 pieces/m². PC® F anchors to be fixed to the concrete through the first layer of FOAMGLAS® slabs.
- Remove irregularities of the insulation surface with a sanding action, by grinding with a FOAMGLAS® slab or preferably with an emery board. Remove dust from the FOAMGLAS® insulation surface. (5)
- Allow curing time of ~ 3 days (dependent on ambient temperature and humidity).
- Install the plasterboards or fibre reinforced plasterboards using cold adhesive PC® 56, coverage ~2.0 kg/m2.
- Mechanically fix the head of the plasterboards with a minimum of two fixings every 600 mm or 3 fixings for each 1200mm wide boards. Additional fixings might be required, refer to manufacturer's specifications and requirements. (6 / 7)











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° C.
- Please contact our Technical Department for support.

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