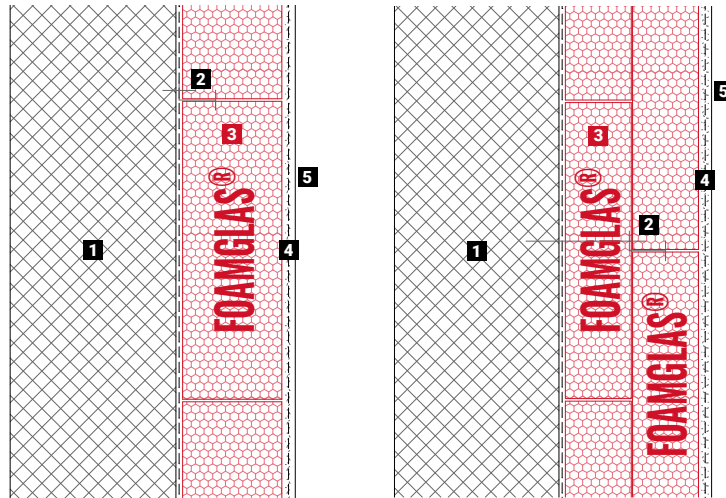


Schematic drawing

System 3.2.17



1. Solid wall (concrete / brickwork)
2. PC F-Anchor mechanical fastening
3. FOAMGLAS® slabs fully bonded with PC® 74A1
4. Top coat of PC® 74A1 with reinforcing mesh PC® 150
5. Fine finish (e.g. PC® FINISH 0)

Features and advantages of the FOAMGLAS® solutions

- **High Compressive Strength:** Tested to Annex 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:

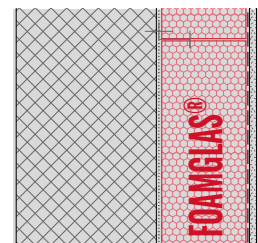
FOAMGLAS® T3+ slab, FOAMGLAS® T4+ slab

(600 x 450 mm).

FOAMGLAS® T3+

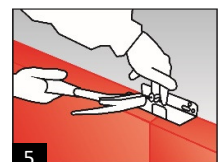
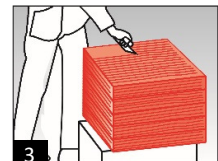
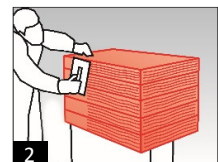
(1200 x 600 mm).

- 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 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.



Installation instructions

- The substrate should be solid, degreased and dust-free.
- When applying PC® 74A1 on concrete, the substrate must be pre-wetted immediately before applying the adhesive. To ensure optimal adhesion and regulate absorption on mineral surfaces like lime, lime cement, gypsum-containing base layers (mortar groups P I to P IV), concrete, fibre cement, apply a white-transparent, quartz sand-containing primer as an intermediate layer before installing the FOAMGLAS® slabs with PC® 74A1. Apply according to manufacturers instructions (1).
- Install the first layer of FOAMGLAS® slabs fully bonded to the substrate with cold adhesive PC® 74A1, with staggered and tightly butted joints. Coverage $\sim 3.5 - 4.5 \text{ kg/m}^2$, dependent on the thickness of the insulation. Apply PC® 74A1 with a notched trowel (tooth size $\sim 8 - 10 \text{ mm}$) to one short and one long side of the FOAMGLAS® slabs and 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 FOAMGLAS® slabs (during application) with PC® F-Anchors, consumption: 2 pieces /m². (5)
- 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. (6)
- For double layer systems: install the second layer of FOAMGLAS® slabs fully bonded to the first layer of FOAMGLAS® slabs with cold adhesive PC® 74A1, with staggered and tightly butted joints. Coverage $\sim 3.5 - 4.5 \text{ kg/m}^2$, dependent on the thickness of the insulation. Apply PC® 74A1 with a notched trowel (tooth size $\sim 8 - 10 \text{ mm}$) to one short and one long side of the FOAMGLAS® slabs and 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)
- Allow waiting time of ~ 3 days (dependent on ambient temperature and humidity).
- Apply a top coat of PC® 74A1 with a stainless steel trowel, coverage $\sim 3.0 - 7.0 \text{ kg/m}^2$.
- Embed the alkali-resistant reinforcing mesh PC® 150 (overlapping joints $\sim 100 \text{ mm}$) flatly and evenly, then smooth the surface. (7)
- Allow waiting time of $\sim 3 - 5$ days (dependent on ambient temperature and humidity).
- Apply the fine finish (e.g. PC® FINISH 0) with a stainless steel trowel. Coverage: $\sim 2.0 \text{ kg/m}^2$. Wet the drying surface and smooth off with a special trowel or when dry with sandpaper.
- Dispersion paint and dispersion silicate paint can be used on it.

**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 $+ 5^\circ \text{C}$.
- Sensitive components provided by other suppliers must be protected against blobs of adhesive.
- Please contact our Technical Department for support.

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