Composite façade system with mounting boards and small size ceramic cladding
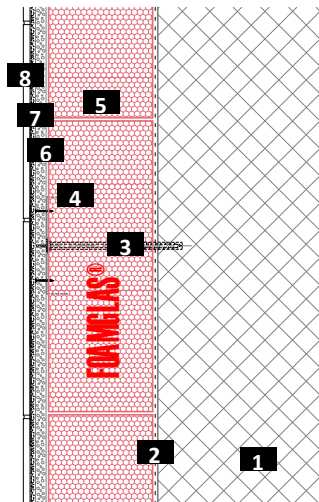
FOAMGLAS® with cold adhesive PC® 56 and PC® serrated fixing plates

FOAMGLAS®
Building

Schematic drawing

System 2.2.6

1 Solid wall (concrete / brickwork)
2 Primer coat
3 Anchor bolt
4 Serrated fixing plates PC® SP 150 / 150 perforated
5 FOAMGLAS® bonded with PC® 56
6 AQUAPANEL mounting board
7 MARMORIT SM 700 primer with Aquapanel reinforcing mesh
8 Small size stone / ceramic / clinker cladding

FOAMGLAS® product propreties

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 contains no toxic substances and, in case of fire, does not develop fumes or toxic gases.
− Functionality: Minimal thermal bridges through thermally optimized fixing system. Insulation and moisture barrier in one single functional layer.

## Recommendations for architect

Normally used:
FOAMGLAS® T3+ (120 x 60 cm),
FOAMGLAS® T3+, T4+ (60 x 45cm).
− 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.
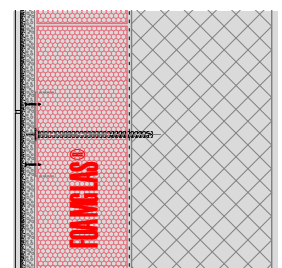
Composite façade system with mounting boards and small size ceramic cladding

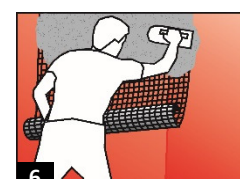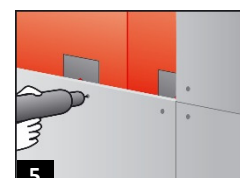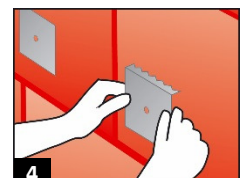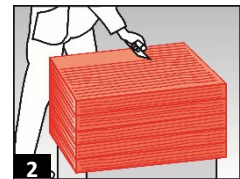**FOAMGLAS® with cold adhesive PC® 56 and PC® serrated fixing plates**

System 2.2.6

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)

− 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/m2, 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.

− Measuring and placing of the serrated fixing plates PC® SP 150 / 150, size 150 x 150 mm. Number and spacing dependent on the size of the mounting boards and the structural requirements, consumption ~ 4 pieces/m2 . Press in the serrated fixing plates PC® SP 150 / 150 and bond with cold adhesive PC® 56. Fix the countersunk anchor bolts. Type and size of anchor bolts according to the specifications of the supplier. (4)

− Mechanical fastening of the AQUAPANEL Cement Board Outdoor with screws Knauf Maxi SB 25 on to the serrated fixing plates PC® SP 150 / 150. Consumption ~ 14 pieces/board. Apply the mounting boards with vertically staggered, tightbutted joints. Fill the joints and the screw heads with joint filler-grey. (5)

− Apply base coat MARMORIT SM 700 with a stainless steel trowel, coverage ~ 5.0 – 7.0 kg/m2 . Embed reinforcing mesh evenly and flatly, then smooth the surface. (6)

− Apply the small size (stone / ceramic / clinker) cladding with MAPEI Elastorapid thinbed mortar. Fill joints with MAPEI Ultracolor Plus. The bonding of the cladding has to be frost-resistant. Float and buttering application free of voids.

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.