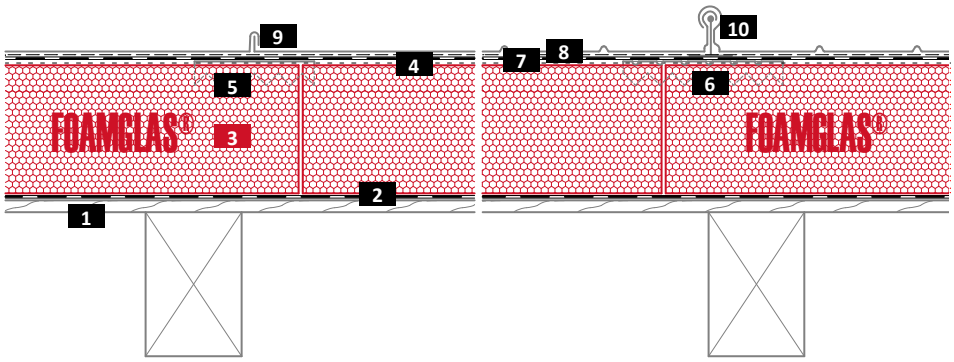
Compact Pitched Roof with standing seam or profiled metal sheet cladding on timber substrate

FOAMGLAS® slabs with hot bitumen and PC® serrated fixing plates

Schematic drawing

System 4.6.5



1 Timber substrate / multilayer composite board
2 Separating layer nailed on or self-adhesive layer
3 FOAMGLAS® slabs, laid in hot bitumen
4 Top coat of hot bitumen
5 Serrated fixing plate PC® SP 150 / 150
6 Serrated fixing plate PC® SP 200 / 200
7 Bituminous waterproofing membrane
8 Separating layer
9 Standing seam metal sheet
10 Profiled metal sheet

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

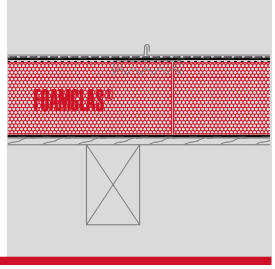
Advantages of the FOAMGLAS® system

- **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 large-scale damages and renovations in the event of a leak caused by a puncture of the roofing membrane.
- **Functionality :** Insulation and vapour barrier in one single functional layer. Flexible and easy installation of a gradient through prefabricated tapered slabs.

Recommendations for architect

Normally used:
FOAMGLAS® T4+, S3, F (60 x 45 cm),
FOAMGLAS® TAPERED T4+, S3, F.

- Insulation thickness to meet building regulations or the 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.
- For the use of FOAMGLAS® under load bearing conditions, the project / structural engineer must check the admissible loads.
- 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.



Compact Pitched Roof with standing seam or profiled metal sheet cladding on timber substrate

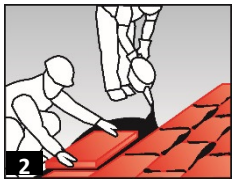
FOAMGLAS® slabs with hot bitumen and PC® serrated fixing plates

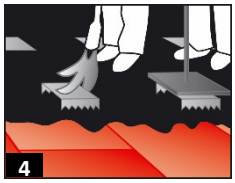
FOAMGLAS®

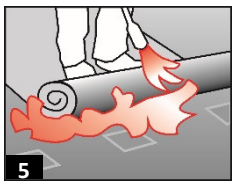
System 4.6.5

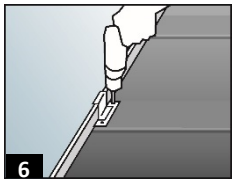
Installation instructions

- For timber decks: Apply loosely laid bituminous separating layer using friction-locked nailing to the substrate, with joints overlapped and bonded. (1)
- For multilayer composite boards: Apply a bituminous self-adhesive layer (appropriate product on request), with joints overlapped and bonded, or a bitumen resistant tape on the boards.
- Apply the FOAMGLAS® slabs fully bonded to the substrate with hot bitumen poured from a bitumen can, with staggered and bitumen-filled butted joints. Coverage ~ 5.0 – 7.0 kg/m², dependent on the thickness of the insulation:
- Dip a short as well as a long side of the slab in the poured bitumen and press into position against already laid slabs. Surplus bitumen spilt at the side must be removed with the next slab in order to avoid irregularities. (2)
- Top coat of hot bitumen, coverage ~ 2.0 kg/m². Pour the hot bitumen and spread with the rubber spreader on the FOAMGLAS® surface. (3)
- Measuring and placing of the serrated fixing plates PC® SP 150 / 150, size 150 x 150 mm for standing-seam metal claddings or PC® SP 200 / 200, size 200 x 200 mm for claddings with profiled metal sheets. Number and spacing dependent on systemspecific requirements and wind loads. Press in and bond the serrated fixing plates, while simultaneously heating up the bitumen layer lying underneath. (4)
- Torch on one layer of polyester-reinforced bituminous waterproofing membrane onto the full surface. Joints tight-butted, torched and sealed. (5)
- Separating layer according to the specifications of the metal cladding supplier and the acoustic requirements.
- Install the desired standing seam or profiled metal cladding. Fasten the fixing clips with appropriate self-drilling screws into the serrated fixing plates. (6)









Recommendations for the contractor

- The build up and tolerences of the substrate have to be in accordance with relevant standards and guidelines.
- Substrate and ambient temperature should not be below + 5° C.
- Adequate measures should be taken in order to avoid any risks of damage by other contractors during construction.
- Protect sensitive components provided by other suppliers against blobs of hot bitumen and the effect of heat.
- Please contact our technical consultants; they can help you by providing support or on-site assistance free of charge.

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