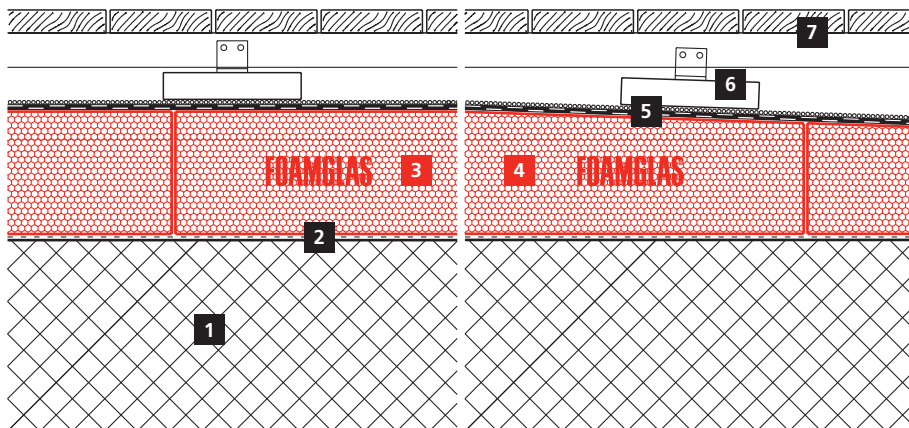


Compact Flat Roof with boardwalk on reinforced concrete deck

FOAMGLAS® READY BLOCK with cold adhesive PC® 500

Schematic drawing



System 4.3.4

- 1 Concrete roof deck
- 2 Primer coat
- 3 FOAMGLAS® READY BLOCK or
- 4 FOAMGLAS® READY BLOCK TAPERED with gradient, bonded with PC® 500
- 5 Two layers of bituminous waterproofing membranes, top layer UV-resistant
- 6 Substructure
- 7 Wooden grating

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

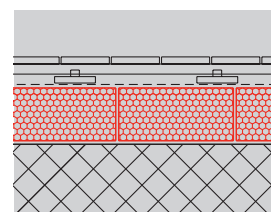
Advantages of the FOAMGLAS® system

- **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 large-scale damages and renovations in the event of a leak caused by a puncture of the roofing membrane.
- **Functionality:** A bituminous waterproofing membrane can be directly torched on to it. Insulation and vapour barrier in one single functional layer. Flexible and easy installation of a gradient through tapered prefabricated blocks.

Recommendations for architects

- Normally used: FOAMGLAS® READY BLOCK T4+ or FOAMGLAS® READY BLOCK TAPERED T4+, size 600/600 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.
- 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 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: November 2010.** 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



Compact Flat Roof with boardwalk on reinforced concrete deck

FOAMGLAS® READY BLOCK with cold adhesive PC® 500

System 4.3.4

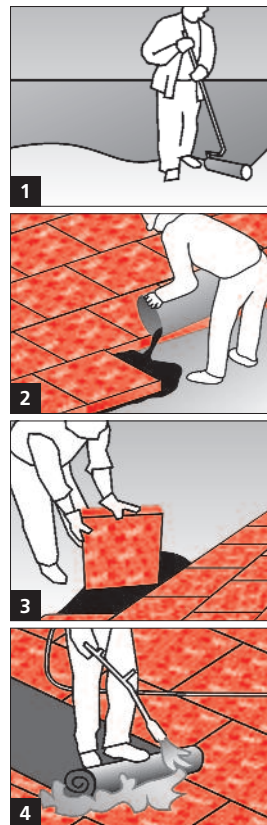
Installation instructions

- Apply bituminous primer with roller (or spraying equipment) on the clean and dry concrete surface, coverage $\sim 0.3 \text{ l/m}^2$. (1)
- Apply FOAMGLAS® READY BLOCKS fully bonded to the substrate, with staggered and butted joints filled with cold adhesive PC® 500 poured from the drum after being agitated with a timber batten. Coverage $\sim 5.0\text{--}7.0 \text{ kg/m}^2$, dependent on the thickness of the insulation:

Pour cold adhesive PC® 500 and spread with a notched rubber spreader. Dip two sides of the FOAMGLAS® READY BLOCKS into the poured cold adhesive and press against already laid blocks. (2/3)
- Possible waterproofing variation: Apply two layers of bituminous waterproofing membranes covering the entire surface. First and second layer are torched on. Joints overlapping at least 100 mm, with staggered courses. Top layer of UV-resistant bituminous waterproofing membrane. (Further installation and waterproofing proposals with bituminous membranes or, for example, also with a combination of bituminous and synthetic membranes are available on request). (4)
- For high acoustic requirements, apply a layer of granulated rubber crumb ($\sim 8 \text{ mm}$) as sound insulation against impact noise. Joints tight-butted.
- Apply the boardwalk according to the specifications of the supplier.

Recommendations for the contractor

- The build up and tolerances of the substrate have to be in accordance with relevant standards and guidelines.
- Substrate and ambient temperature should not be below $+5^\circ \text{C}$.
- A layer of waterproofing membrane must be applied immediately after the insulation has been installed.
- Protective layers should be applied immediately after the application of the second waterproofing layer.
- 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 adhesive and the effect of heat.
- **Please contact our technical consultants; they can help you by providing support or on-site assistance free of charge.**



The technical guidelines for the application and the installation of FOAMGLAS® are based on historical experience and general site practice. They do not reflect individual examples. We therefore assume no liability as to the completeness and the suitability for a specific project. Furthermore, our liability and responsibility are subject to our general conditions of sale which are not extended either by this technical data sheet nor by the consulting of our technical sales representatives.

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