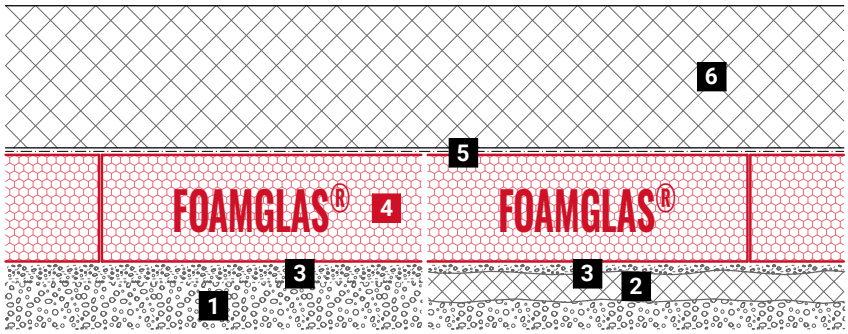
Floor Insulation (load-bearing) on lean concrete mix or levelling compound

FOAMGLAS® for dry construction

Schematic drawing **System 1.1.1**



1. Subsoil or compacted hardcore
2. Lean concrete mix
3. Levelling compound of chippings, stabilized sand or liquid mortar
4. FOAMGLAS®, loosely laid
5. Separating layer
6. Concrete slab

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 :** Provides a substructure with high compressive strength and without deformation for safe structure of the building.
- **Functionality :** Providing insulation and capillary barrier in one single functional layer.

Recommendations for architect

Typical Setup:
FOAMGLAS® BOARD T4+, S3, F (120 x 60 cm).

- 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.
- 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.
- Constructions on sites with a high groundwater table or high water pressure require specialist advice. Please contact our technical staff.

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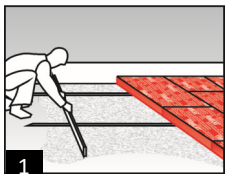
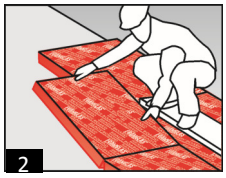
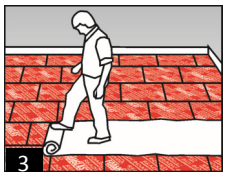
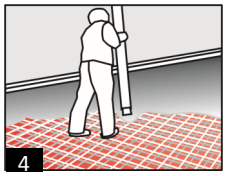
Installation instructions

- Prepare subbase in accordance with the site engineer's instructions. Pour lean concrete mix, thickness ~ 50 mm. Apply a thin layer of fine chippings, dry sand or liquid mortar, grading 3 / 6, in order to level off any irregularities. Level off the surface. (1)
- Apply FOAMGLAS® with staggered and tight-butted joints. (2)
- Apply two separating layers, joints overlapping. (3)
- To protect against high mechanical load or heavy site traffic, apply a protective layer of lean concrete mix, thickness ~ 50 mm.
- Apply the reinforced concrete floor slab. Dimensioning according to the instructions of the structural engineer. (4)









Recommendations for the contractor

- The build up and tolerances of the substrate have to be in accordance with relevant standards and guidelines.
- Adequate measures should be taken in order to avoid any risks of damage by other contractors during construction.
- Please contact our technical consultants; they can help you by providing support or on-site assistance free of charge.

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