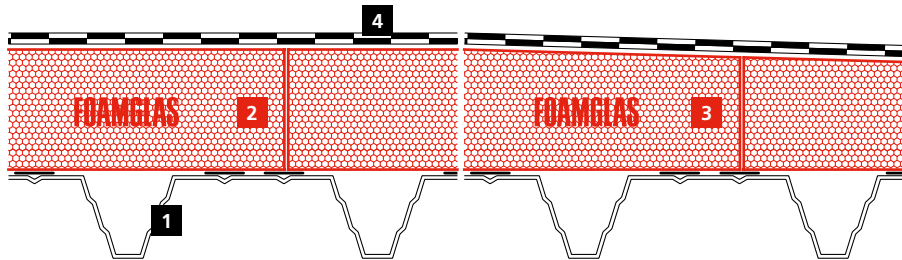


## Ready-Roof without service access or protective layer on trapezoidal metal deck

FOAMGLAS® READY BOARD or READY BLOCK  
with cold adhesive Royal Millennium One Step Green

### Schematic drawing



### System 4.1.8

- 1 Trapezoidal metal deck
- 2 FOAMGLAS® READY BOARD or READY BLOCK, bonded with Royal Millennium One step Green
- 3 FOAMGLAS® READY BLOCK TAPERED, bonded with Royal Millennium One step Green
- 4 Two layers of bituminous waterproofing membranes

### 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

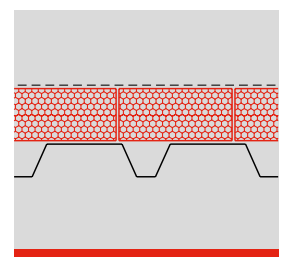
### Advantages of the FOAMGLAS®

- **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:** Use of ecological, green products. No mechanical fastenings needed.
- **Functionality:** Easy and efficient application of the insulation. A bituminous waterproofing membrane can be directly torched on to it.

### Recommendations for architects

- Normally used: FOAMGLAS® READY BOARD T4+ size 600/1200 mm, FOAMGLAS® READY BLOCK size 450/600 mm or FOAMGLAS® READY BLOCK TAPERED T4+, size 450/600 mm.
- In case of buildings with a high humidity level, the joints need to be closed, please contact our Technical Department.
- 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: February 2014.** We explicitly reserve the right to change the technical specifications. The current values can be found on our website under: [www.foamglas.com](http://www.foamglas.com)



## Ready-Roof without service access or protective layer on trapezoidal metal deck

FOAMGLAS® READY BOARD or READY BLOCK  
with cold adhesive Royal Millennium One Step Green

### System 4.1.8

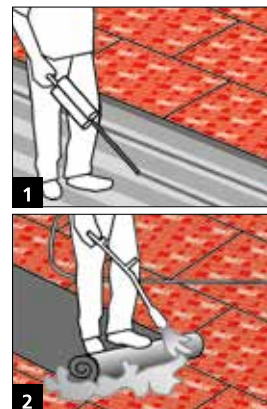
#### Installation instructions

- The surfaces of the profiled metal deck should be clean, dry, free of dirt, dust, oils, etc. to obtain a sound and even substrate.
- In case of refurbishment or a dirty surface apply an adapted primer or surface treatment prior to the application of the Royal Millennium One Step Green adhesive.
- Remove the moulded tips from the mixing head at the groove, attach the mixing tip to the threaded mixing head. Place the cartridge into the appropriate applicator. The applicator is delivered by the adhesive manufacturer.
- Apply the Royal Millennium One Step Green adhesive directly to the top surface of the profiled metal deck. Minimum one bead every 30 cm in the same directions as the top of the profiled metal deck. (On standard profiled metal decks this corresponds with one bead on every top surface), to achieve the right coverage rates. Coverage ~ 180 g/m<sup>2</sup>. Once the adhesive is applied, immediately install the FOAMGLAS® READY BLOCK or READY BOARD with the naked side or the fibreglass side into the fresh adhesive. Set time of the adhesive is 4 to 8 minutes (depending on the ambient temperature). (1)
- In case of high requirements related to building physics (e. g. temperature and humidity in swimming pools), please contact our Technical Department.
- Un-used material can be kept in the cartridge. It can be applied at a later date by simply plugging the cartridges and using a new mixing nozzle.
- 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). (2)

#### Recommendations for the contractor

- Prior to working with any product, be sure to read labels and the Material Safety Data Sheet (MSDS). Take necessary health and safety precautions.
- The build-up and tolerances of the substrate have to be in accordance with relevant standards and guidelines.
- Ambient temperature and surface temperature till -10°C is not a problem for the adhesive.
- Temperature of the adhesive should be 18°C to 29°C at least 24 hours prior to the application.
- Do not store the adhesive in direct sunlight or temperature higher than 32°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.
- The special applicator for the application of the cold adhesive can be obtained from the manufacturer of the adhesive.
- **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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