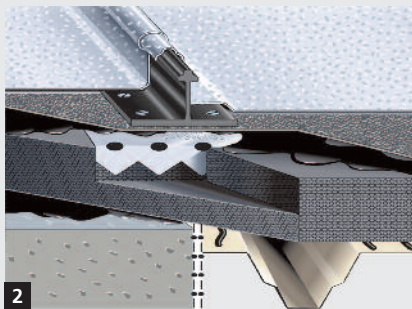
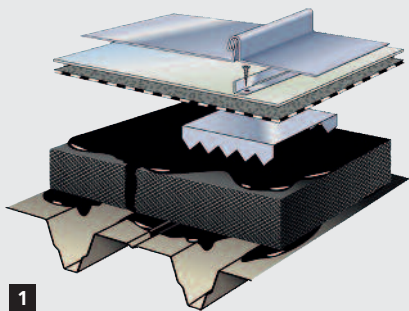


Newsletter

Eliminating thermal breaks in metal roofs

The Unique Fixing System from FOAMGLAS® for Standing Seam and Profiled Sheet Metal – No Place for Cold Bridges.



- 1 Standing seam roofing, PC® SP 150 / 150 or PC® SP 200 / 200). Innovative roof fixing plate spares mechanical fasteners, limiting thermal breaks.
- 2 Profiled sheet metal, fixing plate PC® SP 200 / 200).

Technical features Eliminating thermal breaks

Traditionally metal roofs are secured to the building structure with brackets and screw fixings. These pass through the insulation layer and vapour control layer meaning that each bracket and fixing is a thermal bridge and potential failure point for vapour.

FOAMGLAS® cellular glass insulation has a unique fixing system for metal roofing.

A plate is inserted into the surface of the FOAMGLAS® and held in position by a membrane, the fixing brackets are then secured to this plate; there is no thermal path between the metal roof sheet and the structure of the building – thermal bridging is therefore eliminated with this detail.

Durability & aesthetics

FOAMGLAS® insulation is unaffected by any kind of moisture, vapour or liquid, which means that the designer can eliminate the air-space between the insulation and the metal sheeting, allowing for more intricate and modern metal roof shapes. These designs are not only aesthetically pleasing, they also meet the demands for thermal efficiency.

FOAMGLAS® metal roofs fulfil the most demanding requirements in terms of building physics and service life, and are therefore cost-efficient. FOAMGLAS® metal roofs are virtually maintenance-free when expertly installed.

They comply with the exacting requirements for mountain, coastal and high humidity buildings, like those containing indoor pools or even water treatment plants, paper mills, industrial kitchens, etc.

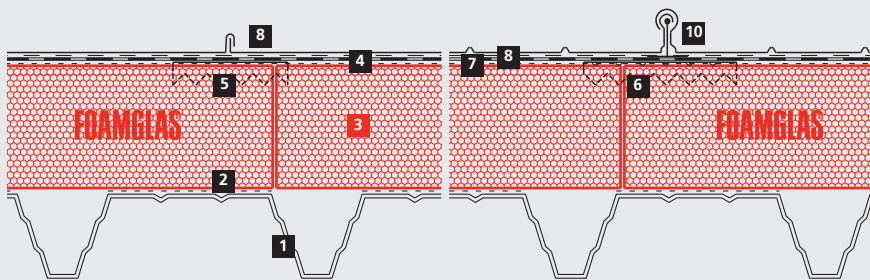
With its ability to withstand high structural loads, its closed cell vapour tight structure, and its permanent thermal performance, FOAMGLAS® is proven to stand the test of time.

The system is able to operate without compromise in the long term, despite the continuous exposure to aggressive conditions:

- Works on all roof designs, regardless of the roof pitch, shape and size
- Resilient thermal insulation and vapour barrier merged into a single product
- High compressive strength (60T/m²)
- High wind load resistance
- Building physics safety – even in the most aggressive conditions
- Long service life because of age-resistant building materials



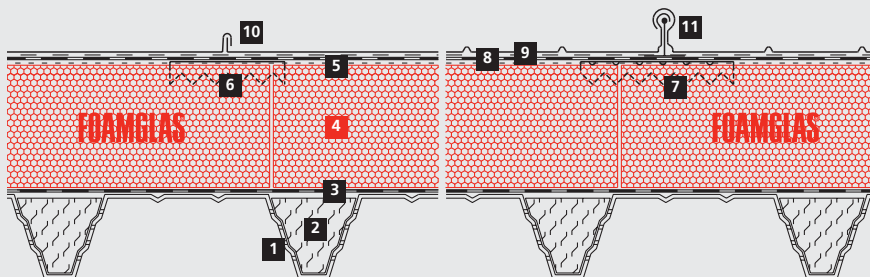
Schematic drawing



System 4.6.2

- 1 Trapezoidal metal deck
- 2 Primer, if galvanised steel
- 3 FOAMGLAS® slabs, laid in hot bitumen
- 4 Top coat of hot bitumen
- 5 Metal fixing plate PC® SP 150/150
- 6 Metal fixing plate PC® SP 200/200
- 7 Bituminous waterproofing membrane
- 8 Separating layer
- 9 Standing seam metal sheet
- 10 Profiled metal sheet

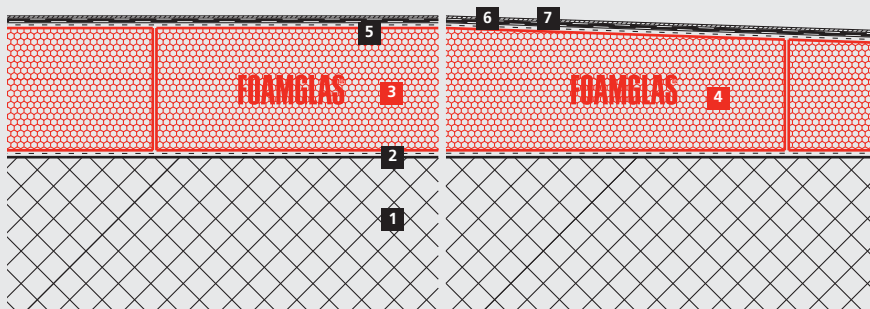
Schematic drawing



System 4.6.4

- 1 Acoustic trapezoidal metal deck
- 2 Mineral fibre insulation infills
- 3 Self-adhesive layer
- 4 FOAMGLAS® slabs, laid in hot bitumen
- 5 Top coat of hot bitumen
- 6 Metal fixing plate PC® SP 150/150
- 7 Metal fixing plate PC® SP 200/200
- 8 Bituminous waterproofing membrane
- 9 Separating layer
- 10 Standing seam metal sheet
- 11 Profiled metal sheet

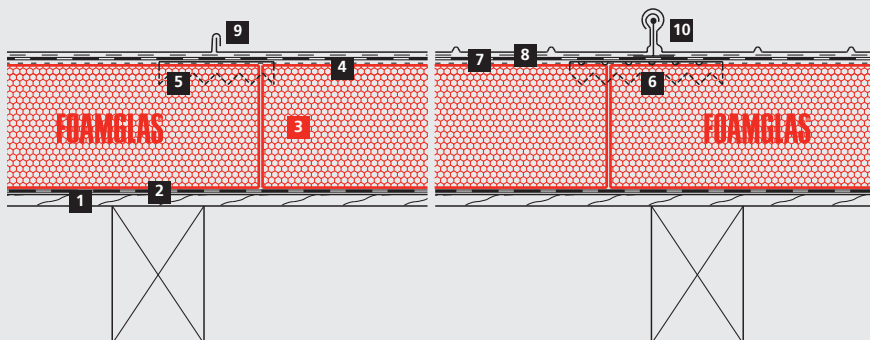
Schematic drawing



System 4.7.1

- 1 Concrete roof deck
- 2 Primer coat
- 3 FOAMGLAS® slabs or
- 4 FOAMGLAS® TAPERED ROOF slabs, laid in hot bitumen
- 5 Top coat of hot bitumen
- 6 Two layers of bituminous waterproofing membranes
- 7 Photovoltaic laminate

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 Metal fixing plate PC® SP 150/150
- 6 Metal fixing plate PC® SP 200/200
- 7 Bituminous waterproofing membrane
- 8 Separating layer
- 9 Standing seam metal sheet
- 10 Profiled metal sheet