

SIG Green Roof Systems

Modular green roof solutions

Description

The module comprises four layers – drainage, filter, substrate and sedum.

Drainage layer: The excess water that cannot be absorbed by the cassette can be easily discharged through the drainage system. The water storage layer contains four drainage holes on the top and bottom of each cavity. Rainwater is buffered through a capillary layer of crushed clay grain. Excess water that cannot be buffered will drain slowly. To create an additional buffer for droughts, the cassette is equipped to store about 1 cm of non-capillary water at the very bottom.

Filter layer: A non-woven polyester filter membrane of 150gsm ensures that the fine particles of the substrate cannot be washed away and cannot block the drainage holes.

Substrate layer: The thickness of the substrate layer has been adapted to the needs of the sedum species and to the climate. This layer, on one hand, provides nutrients and water supply for the vegetation, and on the other hand it provides oxygen and anchorage for the roots. The substrate is light weight, providing nutrition, aeration and a high capacity to store water.

Sedum layer: The modules are supplied with a minimum coverage of 80%. To achieve the best possible vegetation layer, 8 to 10 different species are used. The sedum is sprouted and well rooted.

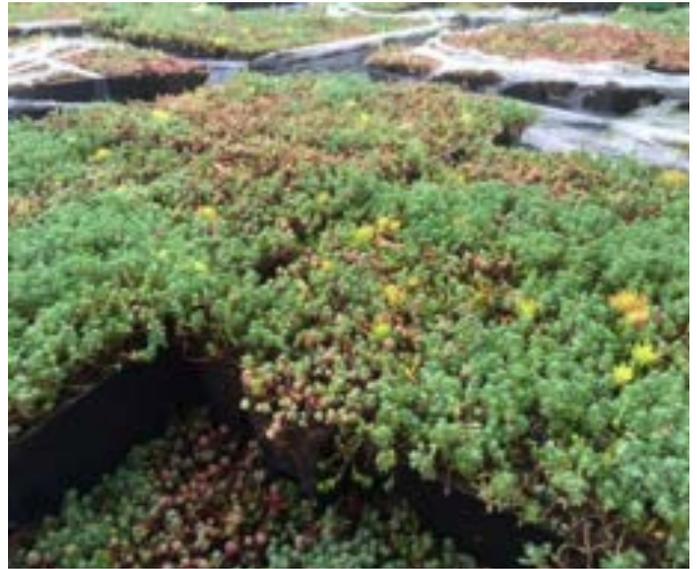
Waterproofing

Once the roof is fully waterproofed follow the manufacturer's compliance directions for protection of the waterproofing. A 300gsm fleece can be applied directly on top of the waterproofing layer.



Benefits

- A pre-grown interlocking plant module that offers ease of installation with exceptional sedum growth coverage
- Delivered in palletised form with a maximum number of 66 modules per pallet (15 m²)
- Lightweight with a high water storage capacity
- 8 to 10 different sedum species are well rooted and grown to maturity
- Module dimensions: 450mm (L) x 495 (W) x 80mm (H)
- Coverage : 4.4 modules per m²
- Dry weight of module: 8.0kg
- Dry weight per m²: 35.2kg
- Saturated weight of module: 12.00kg
- Saturated weight per m²: 52.80kg



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About SIG Design & Technology

SIG Design and Technology is a part of SIG UK Exteriors, a leading division of SIG plc, a FTSE 250 listed company and the UK's market leading specialist supplier to professionals in the building and construction industry. It designs and supplies flat roofs, green roofs, and zinc, copper and stainless steel roofing and cladding.

SIG Design and Technology has put together an 8-step guide to identify the challenges and ensure that a roof's design meets a building's requirements. Called **#Perfect Roof**, the eight steps follow the process from product selection and design expertise through to full guarantees and planned maintenance. Its know-how is just part of the service that is provided absolutely free to customers.