



## Green Roofs



We lead the way in the development of all types of green roofs having supplied and installed solutions for over 40 years.

We provide the complete package of waterproofing systems and associated landscaping components to ensure that every green or blue roof is fully compatible.

■ Overview	170
■ Credentials	172
■ Intensive Green Roofs	176
■ Substrate-Based Systems	180
■ BioSOLAR Roof Vegetation	186
■ XF301 Sedum System	188
■ Technical Design	195

# LIGHTWEIGHT SEDUM SYSTEM

Extensive green roof XF301




## ST LUKE'S CHURCH

Location: **Reigate, Surrey**

The new annex, featuring two barrel vault green roofs, was added to the west end of the original church building to provide a new entrance, two large meeting rooms, toilets and a kitchen. The revitalised church was opened to the community by the Bishop of Croydon.





This is the lightest weight all in one system available. It comprises mature sedum on 20mm of extensive substrate and incorporating a multifunctional water retention and filter layer. The system is suitable for both new build construction and retrofit refurbishment projects.

Our extensive XF301 Sedum System is constructed using low maintenance drought resistance planting (sedum species) that provide excellent cover and increased protection to the waterproofing system.

The plants are grown on a 'blanket' that is harvested like turf and installed by rolling out on top of the waterproofing. The blankets are very lightweight, easy to maintain and provide instant greening to the roof.

The XF301 sedum system is a very versatile green roof system and is suitable for both new build and refurbishment projects.

### Key Features

- The most lightweight green roof system available, making it ideal for retrofitting or refurbishment projects.
- Delivers instant greening of a roof with mature sedum species.
- Ideal solution where a green roof needs to be specified to meet planning requirements.
- Ideal for projects where there are weight, height or cost constraints.
- Sedum blankets are grown on our farm in the UK and delivered to site within 24 hours of harvesting.
- Fire classification B<sub>ROOF</sub> (t4) and verified by the BBA as 'unrestricted' and suitable for use on any part of a roof in conjunction with Bauder Total Green Roof System.

The system features up to 14 species of sedum together with some mosses and grasses which ensures plant diversity regardless of location; species are selected to suit our climate and keep weight and maintenance to a minimum.

*All our green roof systems comply with GRO and FLL guidelines.*

#### Specification Support



Specification downloads:  
[www.bauder.co.uk/technical-centre](http://www.bauder.co.uk/technical-centre)



Telephone helpline:  
0845 271 8800



# LIGHTWEIGHT SEDUM SYSTEM

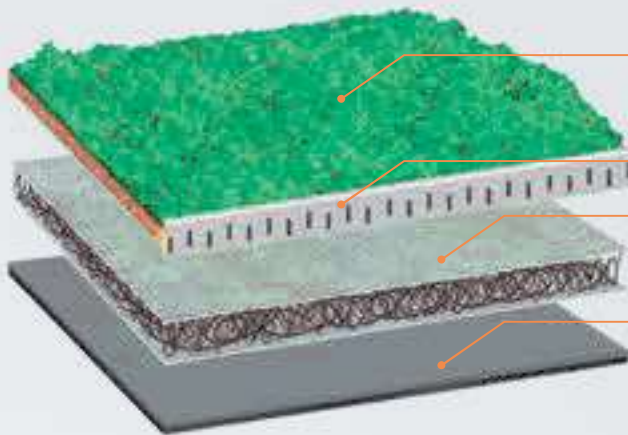
## System Configuration

The multi-functional XF301 combines the vegetation support layer with a moisture retention fleece to provide the perfect base for all roofing scenarios with a labour efficient installation.

Our patented geo-textile carrier fleece with its ultraviolet resistant nylon loops provides a support base for the specially developed substrate growing medium and gives stability to the established vegetation whether on a flat roof or up to 25° degrees.

The integral fleece is a unique feature of our XF301 sedum system, retaining moisture after rainfall and thus allowing the plants to take up the water for future use. The sedums are grown to maturity before being harvested, thus ensuring that they acclimatise quickly to their new rooftop location.

We currently cultivate 60,000m<sup>2</sup> of XF301 and are able to harvest the sedum and deliver to site within 24 hours.



### **Bauder XF301 Sedum System**

pre-cultivated vegetation blanket on a patented nylon loop and geo-textile base carrier with special substrate and a pre-attached integral 8mm moisture retention fleece.

### **AL40 Sedum Blanket Edge Trim**

perforated edge/drainage trim.

### **Bauder SDF Mat**

multifunctional drainage, filtration and protection layer manufactured from ultraviolet resistant nylon woven loops which are thermally bonded to geo-textile filter fleece facings.

**Bauder Waterproofing (all four types are suitable)**

## System Installation



Long length rolls are used to speed up installation process.



Short 2m rolls of XF301 Sedum System installed by hand.



# PROJECTS



Waitrose  
Bagshot, Surrey



Cliff Hotel



Rings Farm  
Holiday Cottages, Cupar, Fife

GREEN ROOFS



# BAUDER PLANTING & VEGETATION



## Bauder WB Native Wildflower Blanket

The vegetation blanket meets GRO recommendations and is specifically designed to flourish in the difficult conditions found on roofs.

The blend of 38 British native wildflowers, herbs and grasses, that are included on most BAP lists, are sown on a 100% natural biodegradable coir blanket.



## Bauder SB Sedum Blanket and XF301 Sedum System

Both of these vegetation blankets provide dense sedum foliage cover featuring up to 14 species of sedum.

The plants provide colour and are selected to suit our climate. The blankets are grown for 12 months. The Bauder SB Sedum Blanket is grown on a 100% biodegradable coir carrier and provides 90% ground coverage at installation.



## Plug Planting

The use of small seedling plants have a number of advantages, each individual species can be chosen and the location and density of the planting can be controlled.

We can supply a wide range of British provenance plug plant species for a project.



## Seeding

Seeding is a proven way to establish vegetation, however at roof level, the environment makes this a challenge without the correct provisions. We supply a range of British and Scottish provenance seed mixes which have a unique blend of seed species, adhesive to bind the seed to the substrate, organic fertiliser for nutrients and mycorrhizal fungi to increase the root surface area and establish the plants as they grow.

# OUR MAINTENANCE SERVICE

With over 35 years' experience in the design and supply of green roofs throughout the UK and Ireland, we offer unparalleled knowledge and horticultural expertise for rooftop vegetation and green roof maintenance.

Our national coverage assures you of a prompt reliable service to fully meet your requirements and comprises a full inspection and evaluation of your green roof.

Our experienced maintenance team will fully comply with relevant health and safety legislation throughout the duration of the work to access the roof with suitable edge protection or fall protection systems; carry out pre-use inspections of all maintenance equipment, wear personal protective equipment where necessary; and risk assess all works prior to commencement.

Following each visit you will be provided with a bespoke report that highlights the work carried out, the condition of the roof and any necessary future works to be considered.

**Call our team for a no obligation quote.**

## Sedum Roof Maintenance

It is a common misconception that extensive green roofs are maintenance free, but this is not the case and annual maintenance is required. Our sedum maintenance service typically concentrates on:

- Ensuring adequate fertilisation of the sedum blanket.
- Evaluating colour and growth rate of vegetation.
- Removal of leaves, debris and any unwanted invasive weeds or plants.
- Repairing of any bare patches.
- Clearance of outlets and testing of irrigation.

## Biodiverse & Wildflower Maintenance

The level of maintenance of the horticultural element of this type of green roof varies significantly depending on the species of vegetation incorporated, and our biodiverse and wildflower maintenance service typically focuses on:

- Ensuring a suitable balance of species on the roof.
- Removal of leaves, debris and any unwanted invasive weeds.
- Strimming back of vegetation and sward growth where applicable.
- Ensuring adequate fertilisation of the vegetation.
- Examining and testing of irrigation.

