GREEN ROOFS

BIODIVERSE, EXTENSIVE AND INTENSIVE SYSTEMS
What We Do
Bauder is fully committed to providing a complete service with an unrivalled level of support on all roofing projects, whether it’s for a new build project or the refurbishment of an existing building.

Technical Expertise
Our large team of regionally based technical managers and site technicians will be on hand throughout the process, from specification design through to inspection of the installation and project completion to ensure a defect free finish.

Our technical department is the envy of the industry, providing a comprehensive and superior service with bespoke specifications individual to each project. Our support services ensure that products and materials all arrive on site when required providing an efficiency that all our clients demand.

Assured Quality
To ensure a consistent and proficient service, Bauder approved contractors are the only people fully trained and certified to install our products. We only approve contracting companies that possess the technical expertise and the organisational capacity to maintain an efficient and well-run site.

We have always operated a policy where we train and approve the individual installer and not just the company they work for. By taking installers with proven experience and demonstrating the techniques particular to our system, we can ensure the quality of workmanship that meets our clients’ expectations.

Every operative receives an identity badge providing proof of competence, which is available for inspection at all times.

Guaranteed Satisfaction
Bauder is noted throughout the industry for the range of guarantees we offer that can cover design, products and installation. We unreservedly issue our guarantees on all projects because we monitor quality every step of the way from manufacture to finished installation.

Who We Are
Bauder is one of Europe’s leading manufacturers of flat roof waterproofing membranes and insulation products that has been owner-operated for over 150 years across 13 countries. We have an enviable reputation and track record for delivering the highest quality materials and service through supplying and project managing the installation of premier flat roof systems.

Our comprehensive portfolio of flat roof waterproofing systems, green roofs and photovoltaic energy delivers an extensive range of solutions to meet individual project needs without compromise.

“Manufacturing the highest quality roofing materials is one thing, but here at Bauder it is our total commitment and passion to work closely together with our clients to successfully deliver every product to the highest possible standard, that sets us above the rest.”

Andrew Mackenzie
Managing Director
Bauder Ltd
Committed to utilising the very latest manufacturing technology, Bauder invests in a programme of continuous research and development to ensure every product and installation is ahead of industry standards, and that the needs of the environment are always kept in focus.
Each green roof brings back a piece of nature and on some buildings a recreational space can be created for people to access and enjoy.

A Bauder green roof combines the finished planting scheme and all its supportive components with a high quality and secure waterproofing system to give you the best results every time.

Designing a green roof can be complex and your local technical manager is best placed to advise you on the implications your green roof will have on the building and its construction as well as the ongoing maintenance of the vegetation and roof.

We have produced a design considerations guide for green roofs which can be downloaded from our website.

bauder.co.uk/technical-centre/design-guides

Recreational Gardens, Terraces and Spaces

Accessed Intensive Green Roofs

Rooftops where the design may include flowerbeds, lawns, shrubs and trees intermixed with paths, driveways and patios. The combinations of finishes will impact on the design, construction, drainage and components used to deliver to each element’s requirements.

Sedum System

Non-Accessed Extensive Green Roof

Lightweight, all in one vegetation system comprising mature sedums pre-grown on an integrated multifunctional water retention and filter layer with 20mm of extensive substrate. The system has been developed for use directly over the waterproofing without the need for a secondary layer of substrate.
Substrate Roofs
Non-Accessed Extensive Green Roofs
Substrate green roofs are designed to be comparatively lightweight, work towards providing some storm water mitigation and support a wide variety of low maintenance plant species which are generally self-sustaining, and wind, frost and drought tolerant. They are primarily used for their ecological benefits and not intended for general access or for leisure purposes.

Biodiverse Habitats
A natural living habitat to encourage a wider spread of birds, insects and plant species into the area and generally replicates the ecological environment of the site upon which construction development is taking place, particularly if a Biodiversity Action Plan (BAP) is to be met with priority species.

Precultivated Vegetation Blankets
Lightweight option with precultivated vegetation for instant planting of the roof. Two options are available; XF118 wildflower blanket contains a mixture of 24 species of annual and perennial native wildflowers and XF300 incorporates perennial sedums with some grasses and mosses.

Plug Planted Systems
Individually planted roof usually incorporating sedums, grasses, herbs, succulents and wildflowers. These can be planted to accommodate location and expected weather conditions, colour or layout designs to the client’s preference.

Seeded Roofs
The vegetation is grown and colonised entirely on the roof from seed with full plant establishment taking between 18-24 months. The plant selection can incorporate native and priority species to gain BREEAM points and meet a BAP.

BioSOLAR Roofs
Combining a substrate green roof with a solar PV array where the substrate and vegetation provide the ballast for the installation. The mounting system raises the modules above the substrate to allow liberal growing room for the plants, which are specified explicitly so that their maximum height does not block light to the array that would otherwise reduce the efficiency of the panels.
Aiding Biodiversity and Meeting a Biodiversity Action Plan (BAP)
A green roof can provide a natural habitat specifically designed to support a particular species of plant or wildlife. Created for the local ecology, in which vegetation will establish and provide a home for smaller elements of wildlife as well as insects and invertebrates. The provision of a healthy habitat in a place that could otherwise be empty encourages wildlife to remain in the area, provides support for the natural colonisation of locally arising plants, birds and small animals, boosting a wider spread of species in the area.

Our vegetation options include our XF118 wildflower blanket and Flora Seed Mixes, which are all specifically devised to meet BAP criteria through their inclusion of species within the RHS ‘Perfect for Pollinators’ and Flora Locale ‘native origins criteria’.

Storm Water Management
Green roofs are one method of retaining rainwater by inception storage in the substrate, drainage/reservoir board and plants. This water is then used by the vegetation or evaporates back into the atmosphere.

Improving Air Quality of Local Surroundings
Localised air quality is improved as the vegetation assists in reducing both gaseous pollutants and dust particles by removing a proportion of them from the immediate environment, effectively purifying the air.

Urban Heat Island Effect
The urban heat island effect is reduced because the substrate of a green roof will absorb some of this heat and the natural evaporation of water from both the plants and soil helps to cool and humidify the air, thus lowering the ambient air temperature.

Recycled Content of Green Roof Components
Many recycled or waste materials are used within our green roof build ups to enable us to provide environmental solutions to the industry.

Water Retention and Drainage Layers
Our DSE 20, 40 and 60 boards are manufactured from recycled high density polyethylene.

Protection Layers
Our protection layers FSM600 and FSM1100 for extensive green roofs are made from a mixture of two recycled materials, reground polyester and polypropylene fibre.

Our ProMat for intensive green roofs is made of granulate from recycled shredded tyres.

Our Ecomat product is created from mechanically bonded recycled Polyester clothing and fabric.

Substrates and Growing Mediums
Our substrates are based around recycled crushed brick and composted organic material.

Separation and Slip Layer
Our PE Foil is manufactured from recycled polyethylene granulate.

Recycling and Reusing Green Roof Components
The level of recycled content within our components clearly demonstrates that these products are then easily returned to the conventional recycling processes at the end of their required lifespan.

BREEAM 2014 Accreditation
The BREEAM assessment method evaluates the sustainability of built environments through the different stages of their life cycle. The schemes include:

Land Use and Ecology
LE 03 Mitigating Ecological Impact
Criteria 1&2
Potential credit 1

LE 04 Enhancing Site Ecology
Criteria 1&2
Potential credit 1

LE 05 Long Term Impact on Biodiversity
Criteria 8
Potential credit 1

Our green roofs can be specified with our XF118 native species wildflower blanket or Bauder Flora seed mixes 3,5,7,9,11 which are accredited by the RHS as ‘Perfect for Pollinators’ and certified by Flora Locale.

Health and Wellbeing
Hea 05 Acoustic performance
Criteria 2
Potential credit 1

Our XF301 sedum system on a metal deck has been tested in accordance with BS EN ISO 140-18: 2006. The sedum plants intercept the impact of rainfall and mitigate the noise so that a figure of 33.5 dB was achieved.

Management
Man 04 Stakeholder Participation
Criteria 12
Potential credits 1

Our green roofs for fully accessible recreational use provide facilities that can be shared by the relevant parties.

Energy
Ene 04 Low and Zero Carbon Technologies
Compliance CN10
Potential credits 2

A Bauder BioSOLAR Green Roof PV array creates local energy generation from renewable sources which can supply a compliant
TECHNICAL CREDENTIALS

Adopting Standards
Throughout Europe, the standards most widely recognised as comprehensively covering green roofs are those of the Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau (FLL), which is a research society for the development of the landscape.

We have adopted these well respected standards, which cover all aspects of waterproofing, root protection, landscaping, installation and maintenance and we will continue to do so whilst also working in conjunction with the GRO Code of Best Practice for the UK.

Protection of the Waterproofing
A green roof protects the waterproofing from UV damage and thermal movement. Research has shown that the life expectancy of the waterproofing is significantly extended and in many cases may last the estimated design life of the building, which can eliminate future replacement costs.

Fire Testing
Bauder XF301 was the first sedum blanket in the UK to be awarded an EXT. F.AA fire rating by the Building Research Establishment.

The full XF 301 sedum system, including the vegetation waterproofing, and insulation was tested, and awarded an EXT. F.AA.

The same system was tested in a sloped orientation to ensure that the fire behaviour is not affected by roof slope and is also classified EXT.S.AA.

Increased Efficiency and Output of a BioSOLAR PV Array
A green roof helps to maximise solar energy generation as the vegetation preserves ambient rooftop temperatures, keeping the modules at optimal output. The cooling effect increases panel output by up to 5-7%.

Productivity in the Workplace
Research has shown that people working in offices that overlook green spaces have a higher productivity and a reduction in stress levels than those with a poorer outlook on a hard, impervious buildings.

Health
Hospitals are greening overlooked roofs or incorporating rooftop garden areas for the benefit of patients as they find that this speeds recovery.

Reduction of external noise within the building
Green roofs have excellent acoustic qualities for both external sound (up to 3dB) and internal noise (up to 8dB). This can prove to be both economically and environmentally effective when used on structures close to airports or industrial developments.

Reduced Building Running Costs
The enhanced thermal performance provided by a green roof provides a more balanced temperature within the building. This reduces heating costs in the winter and air conditioning expenses during the summer.

Reduced Lifecycle Costs
The main reduction in lifecycle costs comes from the green roof providing protection from the damaging effects of the weather, which effectively ‘ages’ the waterproofing, thus the time span between replacement is extended significantly, and in many cases replacement will become unnecessary.

Aid to Planning Consent
Many local authorities favour planning proposals that incorporate green roofs within the application, particularly if it meets their policies towards a sustainable environment or supports priority species.

Offset Construction Costs
In large construction projects a green roof can mean that storm water holding tanks are reduced in size or no longer required, as the roof itself will retain a proportion of the rainfall.

Creates an Amenity Space
The roof is often an under utilised asset of a building, as it offers the unique potential to replace the land lost to the construction as reusable space. Large roof areas covering underground car parks can provide parkland or sports facilities.

Increases Property Value
As an additional dimension is created, the property will maximise the potential available for the sites, and so increase the value.
Intensive green roofs provide recreational gardens and amenity spaces at roof level, with all the benefits usually associated with ground level landscaping. Typically they will feature landscapes combining shrubs, perennial and herbaceous plants, grassed areas, trees or hard landscaping for foot or vehicular traffic.

When to Specify
Maximising the full potential of a building by utilising all available space to deliver leisure spaces. Typically created on new build roof constructions, over underground car parks and podiums. The landscape variations are practically limitless for both design and use.

Key Features
These features are in addition to those associated with all green roofs.

- Assists in maximising the building's potential.
- Provides valuable recreational space.
- Offers storm water management benefits due to the depths of substrate used, particularly when specified in conjunction with permeable paving.
- Increases the overall value of the property.

The plants used make a heavy demand on the green roof and will require maintenance, irrigation and management throughout the year to ensure the upkeep of the landscape and allow the vegetation to flourish.

It is important to first establish the landscape finish you are looking to achieve. There is little to restrict the scope for design, other than the overall weight of the system dictating the construction of the supporting structure and the height and level of exposure of the roof.

All our green roof systems meet with FLL Guidelines
Example System Configuration

Our lightweight substrates combined with specially developed water storage and drainage components all ensure that the modern green roof can replicate a traditional landscape at roof level at only a fraction of the weight and with a substantially shallower build up.

It is crucial that an integrated approach is taken to the design and specification of both the waterproofing and landscaping components, so that the desired outcomes are achieved. We can work with you from the earliest design stage to ensure that your green roof project is successful.

- Bauder DSE60: 60mm thick, water storage and drainage layer, infilled with Bauder Mineral Drain for structural stability.
- Bauder FSM 1100 Protection Mat: recycled polyester and polythene fibre mix.
- Bauder PE Foil: polythene foil separation and slip layer manufactured from recycled granules.
- Bauder Plant E or AP2: root resistant, SBS modified bitumen membrane reinforced with 250g/m² recycled spunbond polyester.

Vegetation specifically selected for each individual roof, from turf to trees.
- Bauder Intensive Substrate: lightweight growing medium manufactured to meet FLL guidelines.
- Bauder Filter Fleece: filtration layer that prevents substrate fines from washing into the drainage layer.

Paving/Pebble Ballast
Granite Chipping Base
These extensive green roof systems are primarily used for their ecological benefits or aesthetic appearance rather than for general access or for leisure purposes.

A traditional extensive substrate green roof system provides a depth of growing medium usually around 80-120mm to allow for the specification of a broader range of species and planting schemes. The plants are generally low maintenance, wind, frost and drought resistant and can be installed by different methods, including plug planting, vegetation mat and seeding.

When to Specify
The system is lightweight and offers the advantage of a bespoke vegetation finish with a substrate depth to support the plants, suitable for new build construction and retrofit or refurbishment projects.

Key Features
- Comparatively lightweight.
- Plants chosen to suit the project and location.
- Significant scope for creating a natural habitat to encourage plants and small wildlife to remain, so aiding biodiversity.
- Can be designed specifically to support particular flora and fauna.
- Aid to planning consent as biodiversity roofs help to meet local authority policies towards a sustainable environment.
- Aid to meeting BREEAM requirements of a development through points secured by the use of accredited native species plants.
- Develop another dimension through a unique opportunity to maximise the potential of the building to support the environment.
- Good levels of rainwater attenuation, depending on substrate depth.
- Cost effective on large roof areas.

Creating a Biodiverse Roof
This specific type of green or ‘living’ roof typically either tries to replicate as closely as is practical the ecological environment of the site where construction has taken place or sets out to create a natural habitat to support a variety of flora and fauna so aiding biodiversity.

When to Specify
Biodiverse roofs can be created on new build construction and refurbishment or retrofit projects. Ideal for meeting biodiversity action plans (BAP) and delivering to BREEAM and planning requirements.

All our green roof systems comply with FLL Guidelines.
Example System Configuration

Substrate-based extensive green roofs can incorporate a variety of vegetation finishes.

**Vegetation Mats**
The installation of a precultivated vegetation mat allows instant coverage of the roof. Native species wildflower blanket XF118 meets the growing demand to satisfy the requirements of BREEAM and to meet a biodiversity action plan for the site.

Sedum Blanket XF300 provides dense sedum foliage featuring up to 11 species of sedum with some mosses and grasses for plant diversity.

**Plug Planting**
This method gives the client both a much greater choice of plant species and the opportunity to plan the layout. The individual immature plants or ‘plugs’ are planted out into the substrate by hand, which can then grow on to give good cover over the next two full growing seasons.

**Seeding**
This is an economical and practical method for vegetating larger roof areas. Plant establishment and full coverage will take between 18-24 months, depending upon the time of year sowing takes place and the weather conditions during the period of establishment.

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**Bauder Filter Fleece**
filtration layer that prevents substrate fines from washing into the drainage layer.

**Bauder DSE40**
40mm water storage layer that provides multi directional drainage.

**Bauder FSM600 Protection Mat**
recycled polyester and polypropylene fibre mix.

**Bauder PE Foil**
polyethylene foil separation and slip layer manufactured from recycled granules.

**Bauder Plant E or AP2**
root resistant, SBS modified bitumen membrane reinforced with 250g/m² recycled spunbond polyester.

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www.bauder.co.uk/technical-centre
An extensive substrate system on a pitch greater than 10° requires a water retention and storage board that will hold the substrate firmly in place and be sufficiently rigid to prevent board flexure and manage the imposed sheer load.

The extensive or biodiverse substrate is applied directly to the profiled surface of the board so that the green roof is stabilised whilst retaining sufficient levels of water to support the vegetation.

**Sedum Vegetation on Bauder Extensive Substrate**
- variety of sedum species with some grasses and moss.

**Vegetation on Bauder Biodiverse Substrate**
- generally provided through plug planting, vegetation mat or seeding. Selected species can be chosen to suit the project and location.

**Bauder Substrate**
- applied directly to the profiled surface of the reservoir board.

**Bauder Reservoir Board**
- lightweight rigid expanded polystyrene water storage and drainage layer.

**Bauder FSM600 Protection Mat**
- polyester and polypropylene fibre mix.

**Bauder PE Foil**
- polyethylene foil separation and slip layer manufactured from recycled granules.

**Bauder Plant E or AP2**
- root resistant, SBS modified bitumen membrane reinforced with 250g/m² recycled spunbond polyester.

www.bauder.co.uk/technical-centre
BioSOLAR Green Roof System

Bauder BioSOLAR is a revolutionary solar PV mounting system for biodiverse or extensive green roofs. Well suited to new build applications where environmentally friendly solutions are required to meet planning and BREEAM requirements. Our BioSOLAR system can also be retrofitted on many existing roofs without the need for any structural modification to the building.

A key element is that the front edge of the PV panel is set 300mm above the level of the substrate, which allows liberal growing room for the vegetation without blocking light to the array that would otherwise reduce the efficiency of the panels. This height setting also enables light and moisture to reach beneath the panel to support the plants below.

**Vegetation Mats**
Native Species Wildflower Blanket XF118 meets the growing demand for a native species vegetation blanket to satisfy the requirements of BREEAM and to meet a biodiversity action plan for the site.

Sedum Blanket XF300 provides dense sedum foliage cover featuring up to 11 species of sedum with some mosses and grasses for plant diversity.

**Plug Planting**
Individual immature plants or ‘plugs’ are planted out into the substrate by hand to give a variety of species, which can then grow on to give good cover over the next two full growing seasons.

**Bauder Flora 3 Seed Mix**
Ideal for vegetating large roof areas with species selected for their maximum growing height that meet BREEAM requirements.

Vegetation Mat

Seed Mix

Plug Plants

Bauder FSM600 Protection Mat
recycled polyester and polypropylene fibre mix.

Bauder PE Foil
polyethylene foil separation and slip layer manufactured from recycled granules.

Bauder Plant E or AP2
root resistant, SBS modified bitumen membrane reinforced with 250g/m² recycled spunbond polyester.
Bauder XF301 extensive sedum blanket system is constructed using low maintenance planting (succulents) that provide excellent cover and increased protection to the waterproofing system.

When to Specify
The Xero Flor sedum blanket is a very versatile green roof system and is suitable for both new build and refurbishment projects. It is ideal for buildings where weight loading is a consideration or planning requirements stipulate the inclusion of a green roof.

Key Features

- The Xero Flor sedum blanket is installed as a complete system
- The most lightweight green roof system available, making it ideal for retrofitting or refurbishment projects
- Delivers instant greening of a roof with sedums and other species able to flourish in our climate
- Ideal solution where a green roof needs to be specified to meet planning requirements
- Cost effective
- Sedum blankets are grown on our farm in the UK and delivered to site within 24 hours of harvesting
- Blanket features up to 11 species of sedums, some mosses and grasses to ensure plant diversity

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

All our green roof systems comply with FLL guidelines.

Specification Support

Specification downloads: www.bauder.co.uk/technical-centre

Telephone helpline: 0845 271 8800
The pre-attached 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 60,000m² 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.

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.

System Installation

Long length rolls being craned into position and installed.

Short 2m rolls of XF301 Sedum System installed by hand.
BAUDER PLANTING & VEGETATION

XF118 Native Species Wildflower Blanket
This vegetation blanket meets the growing demand for native species plants to satisfy the requirement of BREEAM. The 24 species of wildflowers and herbs incorporated into the blanket have been selected to provide a viable and vibrant plant that will be present on most of the biodiversity action plan lists that project specific ecology reports now demand.

XF300 Sedum Blanket and XF301 Sedum System
Both of these vegetation blankets provide dense sedum foliage cover featuring up to 11 species of sedum with some mosses and grasses for plant diversity.

The plants provide a lot of colour and are selected to suit our climate, and provide 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 supply a wide range of British provenance plug plant species for a Bauder green roof 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.
As a responsible manufacturer and specialist, it is important to us to work with other key manufacturers that produce accompanying rooftop products that may affect the integrity of our waterproofing, such as rooflights, outlets and trims.

All these items need securing to the roof, which means finding a solution to roof details and working with the approved roofing contractor to ensure the installation is precise, accurate and robust.

**Rooflights**
Bauder Euroglaze and BauderDOME are the most advanced rooflight designs available. With high standards of illumination, insulation and ventilation, Bauder offers rooflights for all flat roofed buildings. All these glazing products are fully compatible with our roof waterproofing systems and the standard products all hold BBA certification. They are installed with a comprehensive guarantee to give total confidence and complete peace of mind.

**Accessories**
Our full range of accessories complement a Bauder green roof and give a single point of contact for all elements required in the design. These are some examples of our range.

- **Bauder AL40 Sedum Blanket Edge Trim**
- **Sedum Blanket Retention Strip**
- **Inspection Chamber ALU250**
- **Linear Drain Rainwater Outlet Access Cover**
Your project is important to us and our service is dedicated to providing a green roof solution that fully understands all the individual issues of the project, answers the waterproofing requirement and satisfies the needs of the vegetation.

New Build and Refurbishment Projects
Your green roof design can be complex, so we work with you to ensure all the roof detailing is robust and accurate. Our technical managers will meet you and from your plans they will produce, alongside our technical department, a specification package ready for the tendering process.

A typical specification and report package can include the following:
- Building type and usage.
- Recommended system configuration.
- Detailed specification.
- Green roof construction and design.
- Thermal analysis and calculations.
- Falls and drainage design.
- Wind uplift and restraint calculations.
- Detailing on all roof penetrations.
- Roof plans and tapered insulation layouts.
- Recommended approved contractors.

Creating a Biodiverse Landscape
We support the architect in the design and development of the biodiverse roof, ensuring it complies with the ecological requirements for maximum BREEAM credits and fulfils all the planning requirements.

Our technical team can produce comprehensive specifications for the roof and, if required, detailed roof plans and management plans for the design to satisfy both BREEAM inspection and local planning authorities.

Biodiverse Roof Plans
In discussions with architects we can interpret the ecological requirements to show a detail ‘layout’ drawing for the mounding of substrate and location of planting and surface finishes, ensuring the loading of the roof is compatible with the roof structure.

Biodiverse Green Roof Management Plans
Increasingly, local authorities require 3-5 year site specific management plans to ensure the roof establishes correctly and produces the habitat it was designed to deliver.

We offer a project specific management programme which enables the planning requirements to be discharged with our maintenance and monitoring team carrying out the work.

Vegetation
All BAP’s are focused on the enhancement of the local ecosystems, to this end the provenance and suitability of the plant stock is key.

Our vegetation blankets are grown in the UK and all wildflower plugs are of British provenance.

Our Flora Seed Mix range uses seed from sources who are signatures to the Flora Locale code of practice.

Bauder Flora Seed Mix Range
- Bauder Flora 3: General Purpose Mix
- Bauder Flora 5: Urban Seed Mix
- Bauder Flora 7: Chalk Grassland
- Bauder Flora 9: Coastal Mix
- Bauder Flora 11: Scottish Mix
1: Brief and Consultation
You give us your remit and together we discuss the green roof project; site suitability, level of access required, falls and drainage, weight loadings, performance expectations, preferred system application, your budget and how the works can be formulated.

2: Roof Review
Upon determining which green roof and vegetation finish is suitable for your building we will perform a detailed appraisal of all roof areas to fully assess the structural and design considerations, and propose the appropriate green roof components.

3: Report, Design and Specification Service
Designing to protect the building’s construction and flat roof waterproofing is vital when delivering a green roof as many forces can affect the structure. Your detailed report and specification package takes into account these factors and will answer your original brief.

4: Contractor Selection
The Bauder approved contractors best placed to deliver your green roof will competitively tender for your project. Our national network of contractors undergo a rigorous selection process and their installers are trained specifically in the application of our systems, so you are ensured an expert installation.

5: Green Roof Installation
Once the Bauder approved contractor has been appointed, a pre-contract meeting will make sure the project delivery is well coordinated. The works are closely monitored by Bauder site technicians to ensure quality and waterproof integrity of the roof and correct installation of the green roof components.

6: Sign Off, Guarantee and Maintenance
A full final inspection is completed on the works by our site technician team following rigorous approval criteria before the guarantee is issued.
Installations
You can be assured that the waterproofing, PV and green roof installation performed on your building’s roof will be of the absolute highest quality, as we only allow fully trained and certified Bauder approved contractors to install our roofing solutions.

Approved Contractors
Our national network of approved contractors are given all the training, support and expert advice they need in order to deliver a high quality roof installation that we are proud to put our name to.

We look to build strong working relationships with all of our approved contractors, as we recognise just how essential the quality and experience of the installing operative is to ensuring a successful project.

Badged Operatives
Excellent workmanship is crucial to the guarantee that accompanies Bauder installations and so we have always operated a policy to train and approve the individual installer, and not simply the contracting roofing company. Each individual fixer is required to display their approved operative badge at all times showing photographic identification, name, badged operative number and the systems that they are trained to install.

Bauder Site Technicians
Once your roofing works commence, our experienced team of site technicians will monitor and inspect the workmanship at key stages to ensure that the standards required to meet our guarantee are fulfilled, as well as providing you with easy to understand reports on how the works are progressing.

Our national team is the largest of all the manufacturer-suppliers, ensuring all our sites receive the attention they deserve.
Guarantees
A full final inspection is undertaken by our site technician team on completion of the waterproofing before the installation of the green roof commences.

Your completed roof package will be backed up by what we can confidently claim to be the most comprehensive guarantee range in today's roofing industry, giving you total reassurance with regards to the future performance of your building's roof.

Unlike others in the market, Bauder offers a full range of guarantees that map to the building's and client's requirements. Our guarantee provides you with complete satisfaction and will be bespoke to your project and its requirements.

We issue our guarantees unreservedly as part of our service because we monitor quality every step of the way from manufacture to installation.

Guarantee Options

- Products supplied by Bauder (exclusions exist).
- Workmanship and installation of Bauder products by our approved contractors.
- Design, advice, formula and specification where Bauder products are concerned.
- Financial loss from building damage due to faulty manufacture or installation of Bauder products.
- Consequential damage through Bauder waterproofing system failure due to faulty manufacture or installation of Bauder products.
Our portfolio of waterproofing systems ensures we impartially match the right solution for every project whether new build or refurbishment.

**Single Ply Systems**
Our single roofing systems are ideal for lightweight, fast track and cost effective construction projects. The systems provide solutions that are durable, resistant to the natural elements and are able to support extensive green roofs.

- **Projects:** New build or refurbishment.
- **Construction:** Warm, cold and inverted roofs.
- **Upgrades:** Extensive Green roofs and BauderSOLAR
- **Certification:** BBA, FM Approval.
- **Guarantees:** Full range.

**Cold Liquid Applied Waterproofing**
Our cold liquid applied systems are based on the most advanced PMMA technology. Simple to install, fast curing and long lasting; they are suitable for use in all kinds of flat roof, balcony, walkway, and terrace waterproofing and surfacing applications.

- **Projects:** New build or refurbishment.
- **Construction:** Warm, cold and inverted roofs.
- **Upgrades:** Extensive Green roofs and BauderSOLAR
- **Certification:** BBA
- **Guarantees:** Full range.

**Bitumen Membrane Systems**
Our long-established and fully integrated roof systems incorporate SBS modified elastomeric bitumen membranes and highly efficient PIR insulation to give a robust waterproofing solution with long-term durability and life-expectancy. These systems are ideal for all types of green roof scenarios and solar PV.

- **Projects:** New build or refurbishment.
- **Construction:** Warm, cold and inverted roofs.
- **Upgrades:** Extensive Green roofs and BauderSOLAR flat roof or BioSOLAR photovoltaics.
- **Certification:** BBA.
- **Guarantees:** Full range.

**Hot Melt Structural Waterproofing**
The Bauder Hot Melt Structural Waterproofing System can be installed on decks with zero degree falls.

- **Projects:** New build.
- **Construction:** Cold and inverted roofs.
- **Upgrades:** Green roofs and BioSOLAR photovoltaics.
- **Certification:** BBA
- **Guarantees:** Full range to accompany BioSOLAR PV system.
ONLINE TECHNICAL RESOURCES

bauder.co.uk/technical-centre

Get your specification right

Online technical resources for your flat roof project
At Bauder our service is free to you and covers all elements for a successful project delivery from initial concept or site survey, through to specification package with bespoke drawings and calculations, on site monitoring and final sign-off and handover.

We appreciate that there are times when you need resources to get your project started and the Bauder Online Technical Centre will support you.

Technical Centre
- BIM objects and NBS specifications
- CAD detail drawings
- System summaries
- Certification
- Declarations of Performance
- Products
- Design guides
- Brochures
- BRE Green Guide
- Maintenance advice
- Technical CPD seminars

BIM OBJECTS & NBS SPECIFICATIONS

CAD DRAWINGS

SYSTEM summaries

BBA & CERTIFICATION

DECLARATIONS of PERFORMANCE

PRODUCT DATASHEETS

DESIGN GUIDES

BRE GREEN GUIDE

MAINTENANCE ADVICE

BROCHURES

CASE STUDIES

TECHNICAL CPD SEMINARS

Specification Hotline: 0845 271 8800