

BAUDER



FLAT ROOF SOLUTIONS

OUR COMPANY

WHO WE ARE

Bauder is one of Europe's leading manufacturers of flat roof waterproofing membranes and insulation products with an enviable reputation and track record for delivering the highest quality materials and service. For over 150 years we have been developing, manufacturing 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.



Andrew Mackenzie
Managing Director,
Bauder Ltd

"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."



TECHNICAL EXPERTISE

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. 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.

A typical specification and report package can include the following, where appropriate:

- Building type and usage
- Core sample analysis
- Recommended course of action
- Recommended waterproofing system
- Full design service for solar PV including roof surveys, specifications and yield analysis
- Roof plans with detailed drawings
- Falls and drainage design
- Tapered insulation layout
- Wind uplift and restraint calculations
- Detailing of all roof penetrations
- Thermal analysis
- Recommended Approved Contractors
- Detailed bespoke specification

ASSURED QUALITY

To ensure a consistent and proficient service, Bauder approved contractors are the only people fully trained and certified to install our products. Controlling the quality and experience of the installing operative is an essential element to ensuring a successful project; by and this contributes greatly to the performance and longevity of a new waterproofing system. If you choose a Bauder product you can be confident that the installation will be as reliable as the product itself; we only approve contracting companies that possess the technical expertise and the organisational capacity to maintain an efficient and well-run site.

Bauder prides itself on its comprehensive training programme. We have always operated a policy where we train and approve the individual installer and not just the company he works 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.

All operatives installing our systems receive individual application tuition from our instructors. Following successful assessment, the operative will receive 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 guarantees we offer with total cover for the design, our products and installation, depending on the system installed. We unreservedly offer them as standard on all projects, and we can do this because we monitor quality every step of the way from manufacture to finished installation.



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.

BITUMEN SYSTEMS

More than a hundred years of product research and development has resulted in the current portfolio. We offer a complete range of SBS modified bitumen based solutions to suit every project type and budget, and manufacture all the membranes and insulation to exacting specifications and tolerances, ensuring full compatibility of components.

The different systems have different qualities to suit a variety of project and building requirements. We have experienced technical managers located throughout the UK and Ireland who will take you through the options and their individual benefits - they also like to get out on site, listen carefully to what you are saying and give you expert one-to-one advice.



Doug Ross
Technical Director

"Our broad range of reinforced bitumen membranes enables us to propose a specific product configuration for a particular application whilst always looking to value engineer the specification that still offers a robust solution with long meaningful guarantees."

Two Layer Waterproofing

BAUDER TOTAL ROOF SYSTEM

Our Bauder Total Roof System is based on the most advanced membranes currently available. Within this top quality system there is a choice of products to enable it to be tailored to meet the exact needs of each individual project, from the traditional torch applied membranes to the more advanced heat-activated, self-adhesive variants. We also offer a special root resistant capsheet that can be used whenever the system is to be used in a green roof specification.

Whatever your specific requirements, the Bauder system is extremely robust with a life expectancy in excess of 40 years; and covered by a comprehensive 20 year guarantee.

BAUDERFLEX

The Bauderflex system offers a commercial alternative to the Bauder Total Roof System, ideal if you are on a prudent budget. An impressive choice of products enables the system to be tailored to meet the exact needs of each individual project, and has a life expectancy in excess of 30 years. This system is guaranteed for 15 years.

SYSTEM AIRTECH

When safety is of paramount importance, System Airtech is the flame-free alternative for a clean, safe and simple installation that uses a combination of the latest generation self-adhesive membranes, superior adhesives and hot air welding. The system's specific formulations give a life expectancy in excess of 30 years and a guarantee for 15 years makes it a dominant product within the marketplace.

Single Layer Waterproofing

BAUDER PRO F

The Bauder PRO F system features a single layer SBS modified bitumen capsheet, which is designed to be installed directly over thermal insulation, either by torch bonding or mechanical fixing, depending on the deck substrate and the client's requirements.

The system offers a robust alternative to traditional thermoplastic single ply membranes, with a life expectancy of approximately 30 years, and a guarantee for 15 years.

BAUDERTHERM STRIPES

This is an innovative single layer torch-applied overlay membrane that is practical, quick and cost-effective. It is designed for refurbishment projects to extend the life of existing bitumen-based roof systems by around 15 to 20 years, and is guaranteed for 12 years.



St Bernard's School demonstrates a warm roof construction utilising the Bauder Total Roof System with BauderPIR FA-TE Insulation for an extremely thermally efficient roof that lowers energy bills. The system has a life expectancy in excess of 40 years.

SINGLE PLY SYSTEMS

The Bauder single ply systems provide many advantages to the modern building particularly if weight and load bearing limits are an important consideration. Single ply waterproofing offers fast track, flame-free installation.

Our single ply systems suit all dimensions, sizes and shapes of flat roof. They offer creative solutions to many flat roof projects as well as being suitable for extensive green roof landscaping.

These systems are installed using hot air welding techniques with mechanical fastenings or adhesive bonding to provide solutions that are durable, resilient to the natural elements and give excellent fire resistance.



Peter Stonebridge
Commercial Manager
Single Ply Systems

"Bauder is the trusted name in the roofing industry and manufacturing over 250,000m² of single ply membrane every week means there are a lot of clients who depend on the reliability of our membranes as well as contractors who know how good our single ply really is."



We have two systems within our single ply portfolio.

THERMOPLAN T FPO

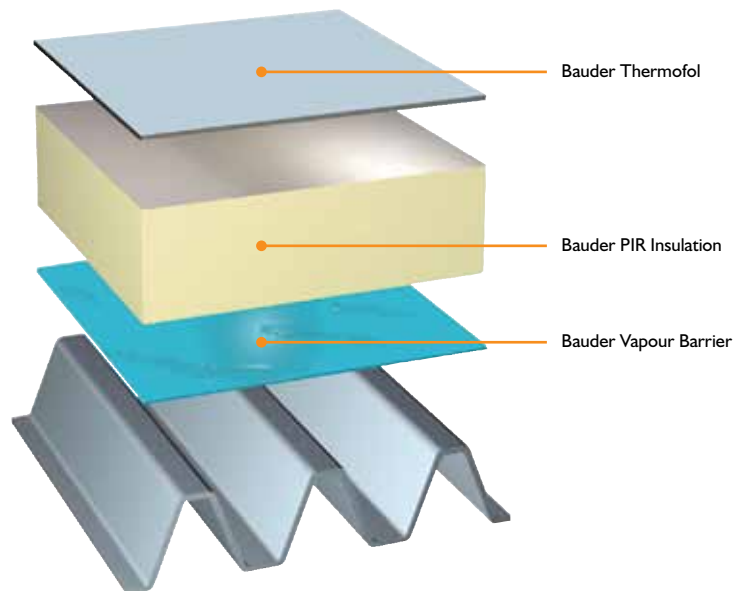
The flexible polyolefin (FPO) single ply membrane, is both environmentally friendly and long lasting, and represents a major advancement in synthetic waterproofing technology. It has a life expectancy in excess of 40 years.

THERMOFOL PVC

This is a PVC single ply waterproofing membrane that ensures a fast track, flame free installation. The membrane has high levels of elasticity and tensile strength to provide a robust solution, giving a British Board of Agrément (BBA) life expectancy in excess of 30 years.

All products within the system are manufactured by Bauder, providing a single point of contact and exact specification formulations for complete compatibility.

Bauder is a member of the Single Ply Roofing Association (SPRA). As an association, SPRA ensures that specifiers obtain high quality polymer-based single layer roofing, through a partnership of quality assured manufacturers and contractors.





The state of the art learning facilities at Walnut's School, Milton Keynes, utilised the Bauder Single Ply Systems and an extensive sedum vegetation blanket on some of the roofs helping to promote the school's forward thinking and environmental awareness.

LIQUID SYSTEMS

The Bauder liquid waterproofing systems deliver a monolithic installation across a variety of the surfaces and detailing. We deliver products that are at the forefront of waterproofing technology for both refurbishment and new build projects.

The Bauder portfolio incorporates two forms of liquid waterproofing; the bituminous system is ideal for structural waterproofing and is robust, very flexible, and with its method of application, is cost effective for roofs in a buried installation, the cold applied system with PMMA resin technology combines ease of application, exceptionally fast cure and durability for all kinds of flat roofs, balconies, walkways and terraces.



Paul Felgate
Technical Development Manager

"Our drive for delivering reliable waterproofing has determined that our liquid systems are without compromise and give the highest quality solutions. Clients value our approach and know that we evolve our products to meet the needs of the flat roofs of today and the future."

A handwritten signature in blue ink that reads "P. Felgate".

Two forms of liquid systems are available.

BAUDER LIQUITEC ROOF SYSTEM

This polyester reinforced PMMA resin is a cold applied system intended for both new build or refurbishment projects. It was developed to offer versatility in roof waterproofing and can be applied to a wide variety of substrates as well as most existing waterproofing membranes.

The Bauder LiquiTEC system is thicker and therefore more robust and hard wearing than other cold applied liquid systems, but it is much thinner than asphalt. It is installed using a roller and brush and can be applied to areas that are difficult to waterproof using sheet membranes.

The system comes with a 20 year guarantee as standard.



Bauder Balcony, Walkway and Terrace System

The Bauder balcony, walkway and terrace systems were developed to provide the optimum combination of aesthetic and functional requirements. This system incorporates all the features and technology of the Bauder LiquiTEC Roof System with the added benefit of a heavy duty wearing course which makes it suitable for use in both light and heavily trafficked areas.

The system can be installed all year round and is supported by a 10 year guarantee.

HOT MELT STRUCTURAL WATERPROOFING

The Bauder Bakor Hot Melt Structural Waterproofing System provides a monolithic, fully bonded waterproofing membrane that is tough, flexible and self-healing to minor punctures for use on most protected roofs such as inverted, paved and ballasted. It is ideal for us on terraces, car parks, podiums and plazas and green roof applications.

Bakor is one of the world's market leaders in the manufacture and installation of hot melt monolithic membrane systems, with a track record of research and development and a portfolio of successfully completed projects spanning over 40 years.



COLD APPLIED SYSTEM



HOT MELT SYSTEM

GREEN ROOFS

Bauder has a long and impressive history of green roofs successfully installed throughout Europe. We were the first company to introduce lightweight green roof landscaping technology into the UK and Ireland, and have been involved in many prestigious projects since 1982.

Our unrivalled expertise ensures we can deliver any green roof landscaping scenario, from recreational gardens and parks to simple low maintenance environmental greening and biodiverse ecological solutions.



Nick Ridout
Green Roof Product Manager

Green roofs are still providing new and innovative designs whilst still embracing tangible environmental benefits. The key to a really successful green roof is to ensure that the client receives the green roof they expect whilst balancing legislation and budget; this is where Bauder really comes to the fore with knowledge, support and advice that secures value for everyone."



BIODIVERSITY ROOFS

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. There has been a growing interest over the last few years in green roofs that are designed and installed specifically to meet biodiversity needs, and the action plans of local authorities, to support the environment.

At Bauder, our wealth of practical experience, together with our range of integrated green roof systems, enables us to offer a comprehensive service and solution to assist with getting a biodiversity green roof specified and installed. We will work closely with the client's ecologist to ensure that the desired habitat is achieved.

EXTENSIVE GREEN ROOFS

Extensive green roofs are designed to be lightweight and support a low maintenance vegetation landscape which is wind, frost and drought resistant. They are not intended for general access or for leisure purposes and are primarily used for their ecological benefits or aesthetic appearance.

There are a number of options available offering different substrate and drainage/reservoir board depths to support the widest possible range of plant species within the scheme.



Sedum and Wildflower Vegetation Blankets

This lightweight option with pre-cultivated vegetation provide an instant carpet of plant coverage. There is a broad mix of plant species for diversity of foliage and flower. The pre-cultivated plants are grown on a patented geo-textile carrier fleece with ultra-violet resistant nylon loops which provides a support base for the specially developed substrate growing medium that gives stability to the vegetation.



Individual Planting on a Substrate Base

Another lightweight option, usually incorporating sedums with other self-sufficient plants such as grasses, herbs, succulents and wildflowers, planted in specified depths of substrate. The specified planting allows for a variety of vegetation to suit the colour scheme, local biodiversity action plan, rooftop growing conditions and location of your specific project.

INTENSIVE GREEN ROOFS

Intensive green roofs provide recreational gardens and amenity spaces at roof level, with all the benefits usually associated with ground level landscaping. Increasingly, buildings in city areas are constructed with a green roof on the underground car park to provide additional facilities. The full potential of the building is maximised by utilising all available space within the structure's footprint. Typically an intensive green roof will feature landscapes combining shrubs, perennial and herbaceous plants as well as grassed areas and even trees.

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 will work with you from the earliest design stage to ensure that your bespoke green roof project is successful.



The O2 Office in Leeds is close to the heart of the city and has a philosophy that staff enjoy their working day. The intensive green roof, which is mainly laid to lawn, provides a relaxing space for employees and complements the visual effect of the building.

SOLAR ENERGY

Renewable energies are derived from natural processes that are replenished constantly and they are becoming an ever more important part of our energy mix. Both heat and electrical energy can be acquired from the sun's rays.

The term solar technology covers both solar thermal systems and photovoltaics. A solar thermal system converts energy from the sun into thermal energy. A photovoltaic system utilises the sun's energy to generate electricity by means of photovoltaic modules.



Tom Raftery
BauderSOLAR Product Manager

"Flat roofs are the ideal location for the generation of renewable energy through solar energy. Clients are really appreciating that our SOLfixx system comes with full compliance of the warranties for both the roof and the PV system, all with a support package that adds value to every project."

A blue ink handwritten signature, appearing to be 'TR', written on a white background.

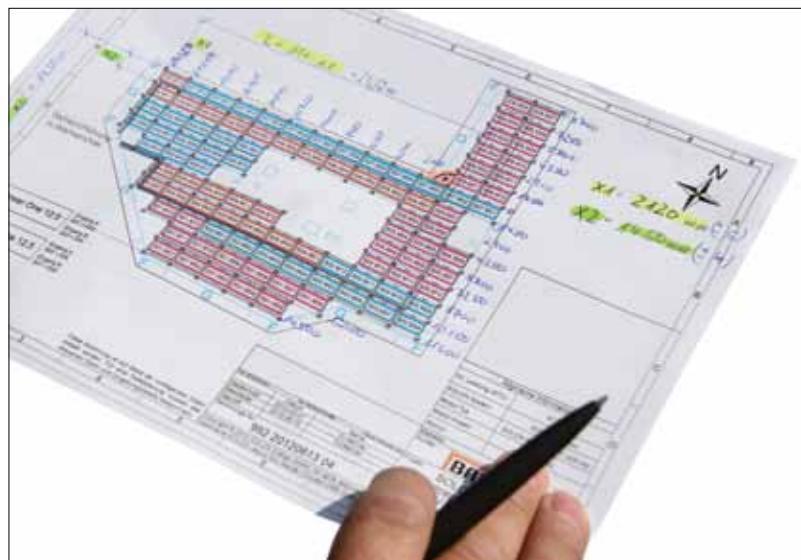
BAUDERSOLAR SOLFIXX PHOTOVOLTAIC SYSTEM

The BauderSOLAR photovoltaic solution features the integrated SOLfixx system in which the module and the substructure are combined to form a single unit which is secured to the roof without penetration of the waterproofing. This ensures that the integrity of the roof is maintained throughout the installation of the PV array on our bituminous or single ply waterproofing systems.

Our solar and waterproofing system provides an integrated single-source solution with clear accountability to reduce risk and increase peace of mind.

This unique installation method sets the system ahead of others. It is the only system on the market which safeguards the integrity of the waterproofing and the roof deck. The fitting of the SOLfixx components to the roof is extremely stable so that even in extreme weather the entire array is secure on the roof. Any minor movement of the panels, which is generally created by wind uplift, is easily tolerated and does not affect the fixings, or waterproofing system.

Assembly of the units is carried out in two ways to suit the roof, its waterproofing system and the desired finish. The two main methods of installation are ballasting and welding with membrane to membrane fixing techniques to either our reinforced bitumen or single ply systems. Pre-fabricated Bauder membrane sleeves slip over the mounting plates and are welded in to position, anchoring the plates to the surface of the Bauder waterproofing system. Once this is completed, the rest of the PV installation is simply locked in to place without any requirement for tools or sharp fixings, and therefore no risk of holes that might cause leaks.





The Berliner Grossmarkt, a 330,000 square metre wholesale produce market in the centre of Berlin has been fitted with what is said to be the city's largest roof-mounted PV installation.

Among the PV products installed on the £1.8m project was the BauderSolar Solfixx system, which has recently been introduced to the UK market.

THE FUTURE

The Bauder Group is totally committed to reducing the impact its business and manufacturing operations have on society and the environment.

We have a business framework on which we manage our environmental initiatives to help monitor and continuously improve our environmental performance and meet the requirements of our ISO 14001 accreditation.

We understand the importance in assisting our customers, specifiers and contractors, in achieving their own sustainable targets by providing them with informative, honest data to enable them to make an informed choice when choosing Bauder roofing systems.



Sustainable Products

BREEAM

Bauder is able to provide waterproofing membranes and insulation that are generically rated A+ in the Building Research Establishment Green Guide. This helps our clients to gain additional credits under the relevant categories within BREEAM and the Code for Sustainable Homes.

SUSTAINABLE MANUFACTURE

Bauder's aim is to manufacture the highest quality flat roofing systems which offer the longest service life, therefore providing lower whole life costs. However, by further focusing on improving our manufacturing processes for all our products we are able to further cut cost, raw material waste and emissions and dramatically reduce the energy and water requirements during production.

Bauder continues to introduce refined production systems to reduce the consumption of energy in the manufacture of our membranes. We have recently introduced improved thermal insulating jackets and a state-of-the-art batching plant; which have contributed to a reduction of energy utilised by 20% per square metre of membrane manufactured.

USE OF RECYCLED PRODUCTS

Through working closely with our suppliers and through extensive research Bauder has steadily increased the recycled content of many of our products without any detrimental effect on their performance. Clients are able to specify Bauder membranes with recycled content of up to 25%.

We can now offer products that consist of shredded car tyres, recycled clothing, polystyrene and hard core and even organic waste. This enables us to provide complete green roof systems with 81% recycled content by volume.

SITE WASTE MANAGEMENT

Bauder is committed to minimising the impact of site waste during the installation of our waterproofing systems. Where facilities are provided, our approved installers will segregate waste suitable for recycling and reduce the impact of construction waste to landfill. Our design team endeavours to adopt system designs incorporating products that have minimal environmental impact and by component selection minimise waste.



Fully understanding the relationship between protection of the environment, the needs of society and the requirements of our shareholders to maintain a good capital investment, is the holistic approach we adopt, and is the only way to ensure our business and products are truly sustainable



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