

1

Essence of Bauder



For over 150 years, we have been developing, manufacturing and project managing the installation of premier flat roof solutions.

Our dedication to maintaining absolute quality throughout the business is just one of the reasons why our reputation for value and exceptional service gets stronger every year.

■ Our Company	02
■ Working with You	03
■ Waterproofing Overview Portfolio	04
■ Transforming Flat Roofs	06
■ Technical Advice & Specification	08
■ Installation Expertise & Guaranteed Quality	09

OUR COMPANY

People create the difference

Bauder is one of Europe's leading manufacturers of flat roof waterproofing membranes, insulation materials, green roofs and photovoltaic systems. Our clients work with us continually because of the way in which we do business, the way we treat every project individually and how we work alongside specifiers and constructors to deliver the best solution for a building.

We have an enviable reputation and track record for delivering the highest quality materials and service through designing, supplying, project managing and monitoring the installation of our premier flat roof systems.

Our History and Future

Combining tradition and innovation has made our company what it is today. As an owner-managed company for over 150 years, we are not under pressure to deliver maximised short-term profit. We always look to the long-term future to continually rise to the challenge of sustainability and incorporate it in the context of good business practice, ensuring it underpins our core values. Developing and manufacturing products with the latest technology fits this ethos and our continual investment in research and development ensures that our products and installations are of the highest standards, meeting the future needs of a building, whilst also keeping in focus the environment and the world in which we operate.

Our People

A successful project requires teamwork, and our people give a unified approach to delivering a flat roof. We adopt best practice across all aspects of our business by working to standards that are recognised nationally. We look to employ methods that add value by; building solid and honest relationships, keeping issues of health and safety a priority, investing in the development of our people, looking to the future with a focus on the environment and sustainability and by building our business in a responsible way.

We maintain high standards throughout the business by offering a high level of commitment to our employees ensuring they are valued, supported, rewarded, empowered to be accountable and take full ownership for their areas of responsibility. This in turn results in a motivated, team-driven culture, encouraging initiative and job satisfaction. It is the strong people focus which enables us to maintain a reputation that is second to none, and one which continues to drive us forward as a strong, high calibre market leader.

Bauder is a people business with the client at the centre of everything we do.



WORKING WITH YOU

Together we are stronger

We approach each client relationship as unique; taking time to fully understand the needs of everyone involved and the intricacies of the project to be delivered. Once we comprehend the scope of the brief, we impartially match the criteria against our extensive portfolio of roofing systems. These include bitumen, single ply, hot melt, cold liquid applied, insulation, green roofs and PV, to recommend the right solution for every project, whether new build or refurbishment.

Architects and Designers

As part of our comprehensive service we can assist with the design of the detailing, write a specification and supply a BIM object for the proposed waterproofing, green roof or PV array and recommend suitable approved contractors with fully trained installers to tender for the project. We work on a one-to-one basis to ensure that the roof specification meets the needs of the building and all project stakeholders.

Surveyors

We understand that surveying a flat roof to determine its condition can often be challenging, especially when you cannot detect the extent of the issues present through a visual assessment. We can help you by performing technical roof diagnostics that pinpoint the exact location and levels of moisture within a failing roof, and provide you with all the information and support you need to deliver your flat roof assessment and refurbishment solution.

Main Contractors

Over the years we have secured many national supply chain arrangements through our best value principles which have been successfully delivered through a variety of different sectors. With early proactive engagement we deliver commercial and technical solutions to meet individual project requirements.

Our principles surround promoting the right flat roof solution, managing the installation and helping your clients reduce risks across the project.

Our Partnerships

As a company we have embraced the partnering ethos for many years, developing long-term, meaningful relationships with main contractors, local authorities, and public utilities; providing tangible benefits in delivery, quality and best value.

Both roof refurbishment and new build schemes require not only specialist project management skills, but also a commitment to working in an open and honest manner. Combined with our willingness to contribute to the communities in which our products and services are being utilised, you have the perfect partnership.

Reduced Risk

We help reduce risk by offering design liability cover on our waterproofing, green roofs and photovoltaics including installation, and the provision of meaningful guarantees without loopholes or points for interpretation.

Project Delivery

Delivering a high quality installation on time is paramount to us. Throughout the roofing works our expert site support and thorough inspections ensure a reliable roof of the highest quality.

Dedicated Personnel

By setting up dedicated project teams each contract within an arrangement is delivered seamlessly and on time and without compromise. Project teams will have a full understanding of the project requirements and will communicate openly with all parties concerned. Our ethos of openness, honesty, trust and a real willingness to meet the objectives and support all the stakeholders, is vital for success.

Continuous Improvement

We pursue improvement in every part of our organisation to ensure it is as efficient and effective as possible, thereby reducing costs and ensuring maximum value for our clients.

Web-Based Collaboration Tool

Our bespoke collaboration tool enables project delivery to be monitored by all the partnering companies; sharing up-to-date information online for ease and speed of access, streamlining processes and KPI assessment, improving environmental awareness and performance, and minimising waste.

WATERPROOFING PORTFOLIO

Reinforced Bitumen Membrane Systems

Our long-established, fully integrated waterproofing systems incorporate SBS elastomeric bitumen-based membranes and highly efficient PIR insulation. They provide exceptional performance, durability and versatility so are the perfect choice for both new build and refurbishment projects.

We manufacture all products within the system, providing a one-stop-shop with a single point contact and exact specification formulations for complete compatibility.

- **Bauder Total Roof System** - industry leader for robust waterproofing with green roof option.
- **Bauderflex** - high grade system with a choice of self adhesive and torch-applied products.
- **Airtech** - torch-free, hot air welded option for increased safety onsite.
- **Pro F** - single layer membrane system for warm roof constructions.
- **BauderTHERM 'Stripes'** - overlay refurbishment system.

Torch-Free Detailing

This detailing method incorporates the latest hot air welded, self-adhesive SBS modified membranes for the vapour control layer, underlayer and cap sheet. These membranes and their installation techniques conform to the recommendations given in the 'Safe2Torch' guidance published July 2017 by the National Federation of Roofing Contractors (NFRC).

The torch-free application reduces risk for contractors and clients and gives a versatile, safe solution for all roof types, site conditions and client's budget.

Our detailing is integral within all Bauder bituminous waterproofing solutions, and is designed specifically to deliver secure torch-free application where necessary (see chapter 3).

Single Ply Systems

Our single ply flexible polyolefin (FPO), or more traditional PVC roofing systems, are the ultimate choice for lightweight, fast track and cost effective waterproofing.

Single ply systems can be either mechanically fastened or adhered with the laps hot air welded.

Mechanically fastened systems are ideal for metal and timber deck constructions or where there is a high risk of wind uplift; an adhered system is ideally suited for concrete deck where the concrete cannot be drilled due to having a high proportion of stone or where the deck structure may be compromised by the drilling, or the visibility of the mechanical fixings is not desirable.

- **Thermoplan T** - FPO membrane.
- **Thermofol U** - PVC reinforced membrane to deliver supreme strength and durability.
- **Profiled Insulation Overlay** - expanded polystyrene (EPS) insulation board manufactured to match profiled sheet metal roof structures.

Our systems provide solutions that are durable, resilient to the natural elements and support extensive green roofs and photovoltaic arrays. (see chapter 4).



Cold Liquid Applied Systems

Our LiquiTEC Roof System and the Bauder LiquiTEC Balcony, Walkway and Terrace Systems were developed to provide the optimum combination of aesthetic and functional requirements for roofs, balconies, walkways and terraces.

These highly durable systems give quick installation times and are suitable for both new build and refurbishment projects and the majority of deck constructions.

With exceptional rapid cure times, totally cold application and substrate compatibility (including most existing waterproofing) they are the first choice for areas where access is restricted and time on site needs to be minimised. (see chapter 6).

Hot Melt Waterproofing

Our hot melt rubberised bitumen system gives a monolithic waterproofing that is ideal for; podiums, paved or ballasted roofs, car parks, and plazas, green roofs and substructures.

The system is designed to last the lifespan of the building. It is a robust and flexible system that remains 'live' so that any minor penetrations and cuts will self-heal. (see chapter 5).

- Bauder Hot Melt - monolithic membrane waterproofing.



TRANSFORMING FLAT ROOFS

Insulation

Our PIR insulation is a specially formulated closed cell polyisocyanurate (PIR) efficient insulation board, which is fully compatible with our waterproofing systems and is available as either flat board or tapered layouts for improved drainage falls.

A relatively new insulant is our vacuum insulation panel (VIP) with its high performance silica core that is encased by composite aluminium foil. The Bauder VIP panel is protected by a rubber crumb mat bonded to the underside and a PIR board on the upper surface, both of which prevent mechanical damage to the vacuum core. We can also provide BauderROCK mineral wool and inverted insulations within our systems (see chapter 7).

Rooflights

Rooflights can form part of an effective technical lighting scheme that can save energy and reduce the carbon footprint of any building through the reduction in use of artificial lighting.

Our experienced technical staff are able to fully advise and guide you every step of the way. From the initial measuring up to the complete installation you are assured of the best technical support and advice. If you have a particular requirement for bespoke rooflights or structural glazing, we are able to provide you with a design service that will match your project needs.

Insulated Rainwater Outlets

Our insulated outlets maintain thermal continuity at drainage points. Ideal for warm, cold and inverted roof construction, the high thermal value of the rigid foam body prevents condensation from forming on the underside of the outlet.

When specified as an integrated component within our waterproofing systems, these products are included within our Bauder System Guarantee (see chapter 10).



Solar PV

Our photovoltaic solutions are specifically designed to deliver the most effective energy generation solution on flat and green roofs.

They are secured to the roof without any penetration of the waterproofing system ensuring it remains completely intact and without compromise.

- BauderSOLAR - flat roof PV energy solution suitable for new build and retrofit projects.
- Bauder BioSOLAR - unified solution for mounting photovoltaic modules on a green roof.

The entire installation process of both of our photovoltaic systems is quick and simple and only our approved contractors, engineers and installers are fully trained and certified to install our unified rooftop solutions.

Through our systems we guarantee the entire specified roof package rather than a separate element, giving single source point of contact and responsibility to reduce risk (see chapter 9).



Green Roofs

Our long and impressive history of supplying green roofs gives all our clients the security that every green roof we install is delivered with the knowledge, understanding and expertise required. We provide the complete package of waterproofing systems and associated landscaping components, to ensure that the most complex of rooftop gardens through to simple low maintenance environmental greening, will always deliver a compatible and reliable green roof (see chapter 8).

- Intensive rooftop gardens - for the full range of accessible roof spaces.
- Biodiversity roofs - to replicate natural and ecological.
- Extensive green roofs - lightweight environmental and self-sufficient solutions.



TECHNICAL ADVICE & SPECIFICATION

Expert support for all your projects

At Bauder we pride ourselves on being much more than just a manufacturer and supplier. Our technical managers play a vital role in the success of every project. Your dedicated technical manager will work closely with you, the specifier, to develop the most appropriate and practical solution for your project. They will work alongside our highly experienced technical department to provide a bespoke specification package tailor made to your individual project. The technical manager will remain involved with your project from initial design to completion of roofing works on site, providing you with a dedicated single point of contact.



Specifying a New Build Project

Our technical managers will be happy to visit your offices to discuss your individual project requirements from both a technical and practical perspective. This will enable them to create a specification that meets the needs of the project design and the employers' requirements. This will encompass; waterproofing system build-up, thermal insulation, associated detailing to abutments and penetrations, landscaping and PV system design. All elements provided by Bauder will be fully supported with the relevant technical calculations and installation guidelines.

Specifying a Refurbishment Project

To provide a technical specification proposal for any refurbishment project, you first need to establish the existing roof build up and its condition. Our technical managers will undertake an in depth roof condition survey where they will assess the condition of the existing roof coverings, structural design and existing thermal performance. The roof survey would normally include core samples and close visual inspection the main roof area and all penetration and abutment details. Once the survey has been undertaken a detailed roof survey report is produced highlighting the roof condition and our findings. A bespoke detailed specification will be produced to embrace the clients requirements and comply with current building control recommendations. This will encompass; waterproofing system build-up, thermal insulation, associated detailing to abutments and penetrations, landscaping and PV system design. All elements provided by Bauder will be fully supported with the relevant technical calculations and installation guidelines.

Technical Roof Diagnostics

We provide in-house thermographic surveys and density gauge moisture mapping surveys to identify specific areas of water ingress and entrapped moisture within the existing roof system build-up. These types of surveys give objective information about the true condition of the roof and confirms the suitability of either an overlay solution or stripped in areas. The potential benefits include, reduced re-roofing costs, reduced waste to landfill and reduced disruption to the building occupants.

Photovoltaic Design Service

Our service provides a detailed PV specification package that encompasses; the array layout roof plan, number of panels and their orientation, system output, carbon saving, wind load calculations and inverter sizing and specification. We can also provide full electrical design, grid applications, budget costing and information on funding options.

Summary of Specification Package:

- Roof survey report.
- Detailed specification.
- Recommended waterproofing system/s.
- Thermal insulation including U value and condensation risk analysis.
- Tapered insulation designs.
- Rooflight schedule.
- Detail drawings & roof plans.
- Drainage calculations.
- Wind up lift and loading calculations.
- Green roof, Blue roof and landscaping design.
- PV system design.

Specifications are available in NBS, BIM and Bauder standard format.



INSTALLATION EXPERTISE

Design and material specification contribute greatly to the performance and longevity of a new waterproofing system as well as the quality and experience of the installer. We only allow fully trained and certified Bauder approved contractors to install our roofing systems.

Bauder Approved Contractors

All of our contracting companies are given a full examination, as they must possess the technical expertise required and organisational facilities to maintain an efficient and well-run site.

Understanding that excellent workmanship is crucial to the success of an installation 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.

Training

Our head office has full training facilities for all our waterproofing systems and we are approved to offer the following Basic Competency Programme (BCP) training which is a gateway for achieving NVQ Level 2.

- RBM systems - National Federation of Roofing Contractors (NFRC).
- Single ply systems - Single Ply Roofing Association (SPRA).
- Cold liquid applied and hot melt systems - Liquid Waterproofing and Roofing Association (LWRA).

Installation Monitoring

Once a roof project is on site, our experienced site technicians monitor the works as they progress, inspecting the installation at key stages to ensure that the standards required to meet the guarantee are fulfilled. Our national team is one of the largest of all the manufacturer-suppliers, ensuring all our sites receive the attention they deserve.

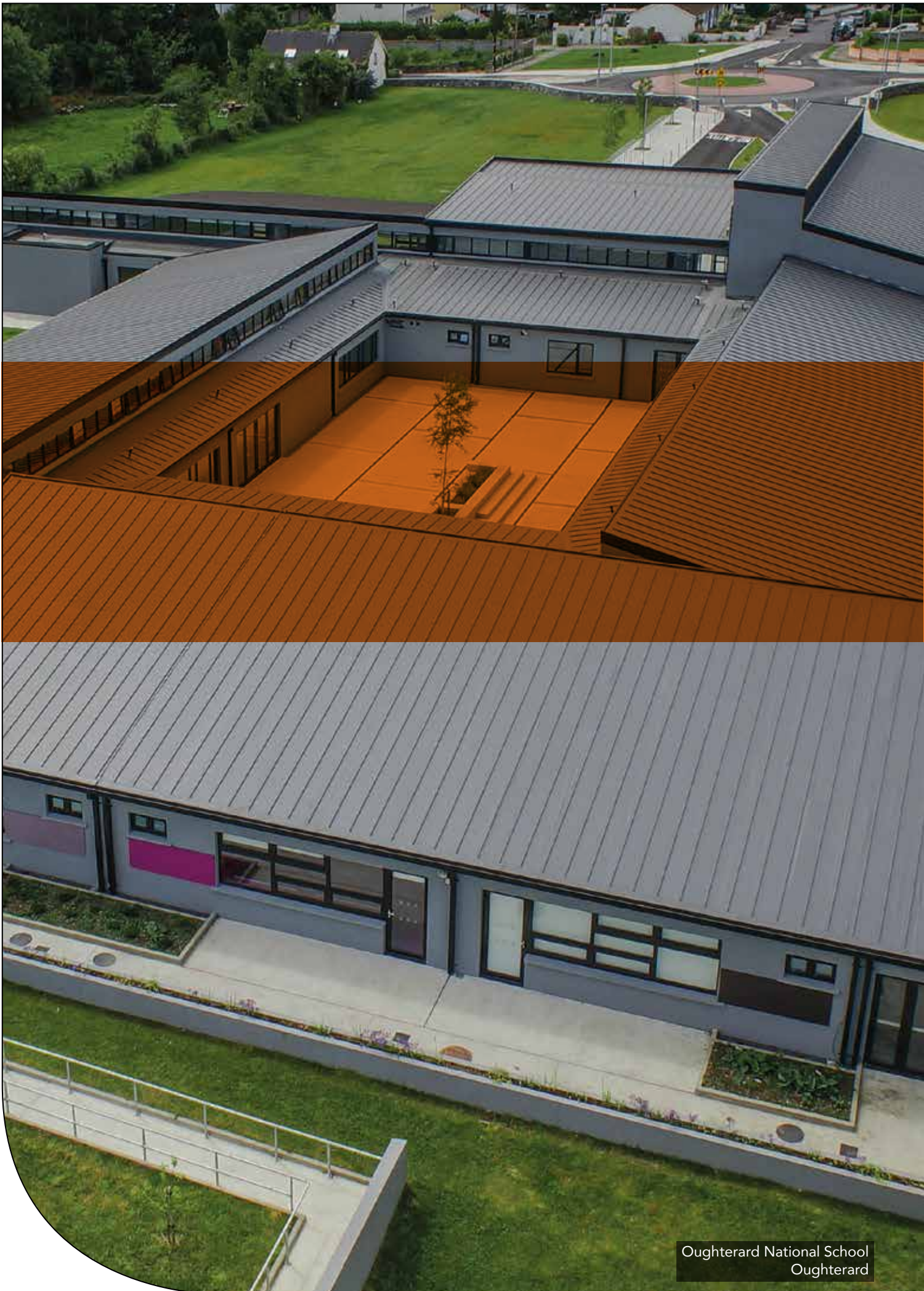
GUARANTEED QUALITY

Our comprehensive range of guarantees give total reassurance for the future performance of a building's roof.

Unlike others in the market, our choice of guarantees map to the buildings' and your requirements to give complete satisfaction. We issue our guarantees unreservedly as part of our service because we monitor quality every step of the way from manufacture to installation.

A credible guarantee is vital; but never needing to call upon it is our aim.





Oughterard National School
Oughterard