



# Flat Roofing Specialists & Maintenance Contractors

**Your Roof. Our Expertise. The Perfect Result**





“ Whether you require smaller, localised repairs or a complete roof replacement, our dedicated team are on hand to provide the expertise and support that you need. ”

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# A One-Stop Solution from The Complete Roofing Company

When it comes to roofing and waterproofing, you can rely on TCRC. We offer a friendly, professional service, providing a wealth of independent roofing consultancy and advice. We also have a team of specialist on-site operatives who are able to carry out a wide range of roof surveys, specialist repairs and complete roof installations.

From our base in Bristol, we are able to take on projects of all sizes and complexity, both locally and across the country. Whether you require smaller, localised repairs or a complete roof replacement, our dedicated team are on hand to provide the expertise and support that you need. Our comprehensive range of services includes all aspects of roof consultancy and technical support, as well as on-site installation of the leading waterproofing and green roof systems.

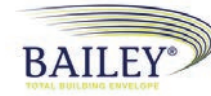
## Delivering Quality Projects, Safely & Responsibly

At TCRC, we are committed to providing first class results without compromising on health and safety. Through training, investment and a dedication to excellence, we are consistently able to deliver high quality projects responsibly, considerately and safely.



## Working with the Best to Deliver the Best

A quality roofing installation depends upon quality products. The TCRC team is fully trained and approved to install the very latest roofing and waterproofing systems and has developed close working relationship with the UK's leading manufacturers.



## Acting as Principal Contractor on Multi-Disciplined Projects

We also have extensive experience acting as the Main Contractor on larger projects which include a number of different disciplines. TCRC's practical, problem-solving approach, together with our expertise across a wide range of systems makes us the ideal choice where a more integrated, co-ordinated approach is required.

### Consultancy services include:

- ✓ Roof inspections & technical surveys
- ✓ Infra-red thermography
- ✓ Roof integrity testing & analysis
- ✓ Roof management & maintenance
- ✓ Guidance on thermal & drainage calculations
- ✓ Independent, impartial advice on system selection

### Contracting services include:

- ✓ Built-up felt roofing systems
- ✓ Cold applied liquid roofing systems
- ✓ Polymeric singly ply systems
- ✓ Hot melt and mastic asphalt systems
- ✓ All types of pitched roof systems
- ✓ Intensive & extensive green roof systems

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## Built-up Felt Roofing

**Built-up felt roofing (BUFR) refers to traditional, multi-layer waterproofing systems that incorporate reinforced bituminous membranes.**

Tried and tested for over 100 years, BUFR systems typically include a bituminous vapour control layer onto which thermal insulation is installed. A sand-surfaced bituminous underlay is then installed, followed by a high performance bituminous cap sheet membrane. Cap sheets are typically available with a choice of coloured mineral finish which provides additional surface resistance and UV protection.

BUFR systems can be installed using a variety of application methods. For example, torch-applied membranes offer rapid, secure bonding whilst self-adhesive membranes are ideal for use where a flame-free solution is required.

### Key benefits of BUFR systems include:

- ✓ Multi-layer, reliable protection
- ✓ Long lasting waterproofing performance
- ✓ Robust membranes - high resistance to site traffic
- ✓ Range of mineral colour finishes available
- ✓ Choice of hot or cold installation methods



## Liquid Roofing Systems

Liquid applied systems are relatively new compared to certain other waterproofing options but are one of the fastest growing sectors in the UK roofing market.

Their popularity is down to the fact that they offer flame-free, cold applied installation combined with seamless waterproofing technology. This makes liquid applied roofing suitable for a wide range of new build and refurbishment projects, particularly those where there are complex detailing requirements.

Built-up liquid roofing systems usually incorporate a bituminous vapour control membrane and thermal insulation followed by a high performance base layer and top coat. Glass fibre reinforcement is can also be incorporated between coats for extra strength and durability.

### Key benefits of liquid roofing include:

- ✓ Cold-applied, flame-free application
- ✓ Seamless waterproofing, ideal for complex detailing
- ✓ Fully insulated systems available
- ✓ Modern, attractive appearance
- ✓ Well suited to a wide range of projects



## Single Ply Roofing

Polymeric single ply membranes have a good track record of success in the UK and are well suited to both new build and refurbishment projects.

As the name suggests these systems usually include a single layer of high quality polymeric waterproofing and this is installed on top of a vapour control and thermal insulation as required. Various forms of single ply membranes are available in the market including PVC, TPO and TPE options. The environmental profile of certain products (such as TPE) is exceptionally good, whilst all polymeric single ply membranes offer flame-free application.

Single ply systems are cost-effective and lightweight, making them suitable for use a wide range of substrates. The membranes are also relatively wide compared to other rolled products, allowing for fast-track installation with fewer seams to weld and waterproof.

### Key benefits of single ply systems include:

- ✓ Lightweight, fast-track waterproofing option
- ✓ Wider rolls mean less seams to weld and waterproof
- ✓ Flame-free installation
- ✓ Aesthetically pleasing finish
- ✓ Cost-effective system options







## Monolithic Hot Melt

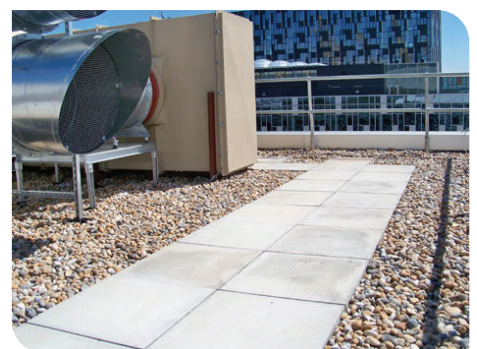
Hot melt has become the system of choice for many new build projects and are exclusively used within inverted roof specifications, where the waterproofing is placed beneath the insulation.

The method of installation involves melting blocks of polymer modified bituminous compound on site and spreading this out over the roof surface. Glass fibre reinforcement is often installed between layers of hot melt and reinforced bituminous membranes are used to provide additional UV protection in exposed areas.

Full inverted roof build-ups usually also incorporate XPS or EPS insulation, followed by suitable ballast such as paving or stone pebbles. Alternatively, the hot melt compound may contain anti-root ingredients allowing an intensive, extensive or biodiverse green roof to be specified as the final roof finish.

### Key benefits of hot melt systems include:

- ✓ Homogenous, seam-free waterproofing
- ✓ Expected to last the lifetime of the building
- ✓ Recommended for inverted roof specifications
- ✓ Ideal for new build construction
- ✓ Additional protection provided by insulation and ballast





## Mastic Asphalt

Mastic asphalt has been used as a proven waterproofing material for thousands of years. From Noah's Ark to Tutankhamun's Tomb, this traditional product has an exceptionally long track record of success.

These days, mastic asphalt is specified on all types of construction project both large and small. The product provides a tough, durable waterproof finish that is also extremely versatile. As a result, mastic asphalt offers a variety of solutions and can be specified on anything from roofs and car par decks to flooring and below ground tanking projects. It is also installed by experienced, time-served craftsmen, ensuring peace of mind and end-to-end quality.

Mastic asphalt's dense, specially modified composition makes it an extremely robust material, but it can also be relatively heavy compared to alternative waterproofing options. Care must therefore be taken at the design stage to ensure that the product is compatible with the building's structure and substrate.

### Key benefits of mastic asphalt include:

- ✓ Robust waterproofing option with a long track record of success
- ✓ Versatile application options
- ✓ Expertly installed by trained craftsmen
- ✓ Independently assessed by the BRE to last over 60 years
- ✓ Inert material providing outstanding resistance to fire



## Green Roofing

Green roofs have become an increasingly popular specification option, especially in built-up urban locations where they have the potential to offer the widest range of benefits.

There are various types of green roof systems and the most appropriate solution will depend on the location of the project, the design of the building and the aspirations of the client. For example, extensive green roofs feature an attractive, low maintenance sedum finish and require less growing medium, so are well suited to more lightweight constructions. Meanwhile, intensive roof gardens require a greater depth of soil but offer much more versatility in terms of landscaping and planting options. Brown roofs are another popular option, providing a truly biodiverse environment that blends in with the local flora and fauna.

No matter what type of green roof system is chosen, effective waterproofing is critically important. TCRC's experts are on hand to guide you through the selection process and help you to specify the perfect complete system.

### Key benefits of green roofs include:

- ✓ Environmentally friendly, sustainable roofing solution
- ✓ Choice of system to suit project requirements and nature of building
- ✓ Can help to reduce storm water run-off in urban areas
- ✓ Additional thermal and sound-proofing properties
- ✓ Roof space can be exploited with potential seating and walkway areas



## Pitched Roofing Systems

In addition to flat roof waterproofing, we are also able to install, repair and maintain a wide range of traditional and modern pitched roof systems.

From slate, clay and concrete roof tiling to corrugated roofs and contemporary composite products, TCRC is perfectly placed to assist with your next pitched roofing project. We have extensive knowledge of the latest systems and work closely with leading manufacturers to deliver a first class result every time.

At TCRC, we pride ourselves on our extensive experience and expertise, so no matter what type of pitched roof you have, our specialist team is on hand to create the perfect watertight solution.

### Typical pitched roof systems installed include:

- ✓ Lightweight composite metal tiling
- ✓ Traditional natural slate roofing
- ✓ Concrete and clay tiling
- ✓ Standing seam metal roofing
- ✓ Corrugated industrial roofing





## Building Maintenance Services

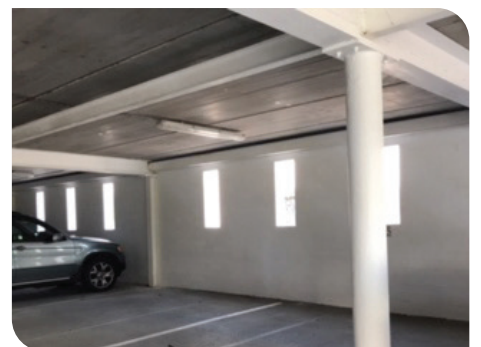
Far more than just a roofing and waterproofing company, TCRC operatives have an extremely wide skill-set and we are therefore able to provide a number of additional complementary services.

From specialist painting and decorating to carpentry and electrical works, we have the in-house expertise to provide a one-stop solution to your building maintenance requirements. This multi-disciplined approach makes TCRC the perfect choice for more complex projects where a number of integrated trades are required.

In addition, our team can replace and install complete rainwater systems, incorporating high quality gutters, fascias and downpipes whilst also helping to improve the overall drainage and aesthetics of the building.

### Typical maintenance work carried out includes:

- ✓ Bespoke carpentry & joinery services
- ✓ Specialist electrical works
- ✓ Specialist painting & decorating (e.g. anti-carbonation coatings)
- ✓ Installation of gutters, fascias and associated rainwater goods
- ✓ Specialist landscaping works (e.g. green roofs)



## Diagnostic Roof Surveys

**A roof is an important asset that often protects valuable property beneath. Where a problem is suspected, TCRC offers a range of technical services which can accurately assess how well the roof is performing and help identify the underlying cause of any issues that are being experienced.**

For each assessment that we carry out, a comprehensive technical report is provided that clearly summarises our findings. The report will also highlight our recommendations and suggested remedial actions moving forward. Based on our industry experience and product knowledge, we can then also produce a complete specification for any replacement waterproofing systems that may be required.

### Roof Inspections & Technical Surveys

Our trained technicians conduct a thorough survey of your roof in order to identify the causes of any localised or general leaks. This service utilises a variety of techniques, including visual and photographic analysis, core sampling and other robust testing methods.

#### Surveying techniques include:

- ✓ Visual roof surveys & core sampling
- ✓ Inspections using MEWPs



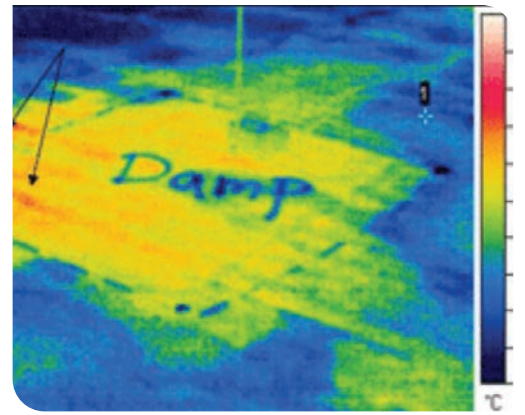
“ For each technical survey that we carry out, we will provide a comprehensive, independent report that clearly summarises our findings. ”

## Infra-Red Thermography

Thermographic surveys take things one step further and can help reveal what the naked and normal photography cannot see. Thermal imaging can effectively reveal localised areas of entrapped moisture, and save budgets by minimising the need to completely strip the roof.

### Additional photography services include:

- ✓ Extended camera surveys
- ✓ Drone aerial photography



## Roof Integrity Testing & Analysis

Our non-destructive roof integrity tests are an excellent way to pinpoint any areas of water ingress. Techniques such as electronic roof tests can offer significant cost savings over complete roof refurbishment, and can also be used as a Quality Control method for new roofs.

### Roof integrity testing techniques include:

- ✓ Electronic leak detection
- ✓ Moisture probe analysis & scanning



## Roof Asset Management Service

Effective maintenance eliminates the risk of early roof failure and keeps the waterproofing system operating efficiently. It prevents avoidable internal damage and, as a result, there are never any nasty surprises or hidden costs, giving you complete peace of mind. Regular roof maintenance is also vital for ensuring that any warranty provided when your roof was installed remains valid.

TCRC's dedicated roof management service takes care of key maintenance requirements for you, enhancing the lifespan of your roof and helping you to avoid unnecessary and costly re-roofing. We are experts in all aspects of roof maintenance, and offer a rapid response service to schools, commercial buildings and residential properties. Taking advantage of our roof asset management service means you have one less thing to worry about and will ensure that the building, its contents and its occupants remain protected for many years to come.

### Key reasons to maintain your roof:

- ✓ Ensure that any roof warranties stay valid
- ✓ Avoid unnecessary hidden costs
- ✓ Eliminate the risk of early roof failure
- ✓ Protect the building's contents and occupants





# TheRoofingPeople



**Your Roof. Our Expertise. The Perfect Result**

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