



**ZERO LEAKS
ZERO ODOUR
ZERO DISRUPTION**

ELASTASEAL Z

The complete solution in roof liquid waterproofing systems for up to 30 years of protection.

**MAKING
BUILDINGS
BETTER**

TOR



HOW WE WORK WITH YOU

1 Free Survey

Our site surveys are FREE. Our first step is to listen, to learn and to collaborate. One of our highly experienced Area Business Managers will meet with you to discuss your project and undertake a free survey of your roof, noting any issues and defects to ensure every aspect of the project is clearly understood and documented thoroughly.

2 Project Specification

Following your survey, your Area Business Manager will recommend professional contractors to complete your installation. A detailed, bespoke written project specification will then be issued including CAD drawings as required. This specification explains how every detail of the roof will be tackled. While all Tor specifications are designed to be as easy to follow as possible, your Area Business Manager will always be on hand to answer any questions you might have.

3 Installation

Your Area Business Manager and our technical service team will be there to monitor the various stages of your installation and ensure the project specification is followed correctly. You can be safe in the knowledge that we partner only with contracting companies whose customer service principles and values are aligned with our own.

4 Aftercare

For added peace of mind, all of our systems are offered with a comprehensive range of no quibble warranties. We are also pleased to offer building owners our insurance-backed guarantee, TorGuard.

With over fifty years' experience, Tor Coatings is a market leader in the field of liquid roofing systems. We are renowned for our high performance coating systems and cutting edge products that include our Elastaseal Z series.

But we don't simply manufacture and market products: we provide clients with a complete service, where you will receive the highest level of technical support and backup right through to the delivery of the finished project. From site surveys and testing, to bespoke specifications and CAD models, we offer our clients complete peace of mind - all at no additional cost.

For further information please contact:
enquiries@tor-coatings.com

ELASTASEAL Z

Tor Coatings has been supplying high quality roofing systems for over fifty years. The Elastaseal Z roof waterproofing system has been developed to solve problems associated with the long-term waterproofing of flat, pitched and domed roofs.

Elastaseal Z is a fully low odour polyurethane coating system incorporating primers, membranes and accessories. It provides flexible, durable, long-lasting protection for up to 30 years to first full maintenance (depending upon which system is specified). The system can also be applied as a wet-on-wet system, dramatically saving time and costs for clients.

Elastaseal Z has been awarded a British Board of Agrément (BBA) Certificate. The Elastaseal Z system has an FAA fire rating when tested under BS476 part 3.

Coatings used in Elastaseal Z™ systems are approved by the British Board of Agrément.



What is liquid roofing?

Liquid roofing is the process of applying high technology waterproof coating systems onto new or existing roof substrates. These innovative systems are suited to all types of roofs, including flat, pitched and domed.

Significantly, there are no hot works required in the application of liquid roof coating systems, meaning a building can remain safely in use during refurbishment. The completed coating system encapsulates the entire roof seamlessly, including any plant and protrusions, to form a breathable, waterproof barrier.

As one of the fastest growing sectors in today's roofing market, liquid applied waterproofing can be used as:



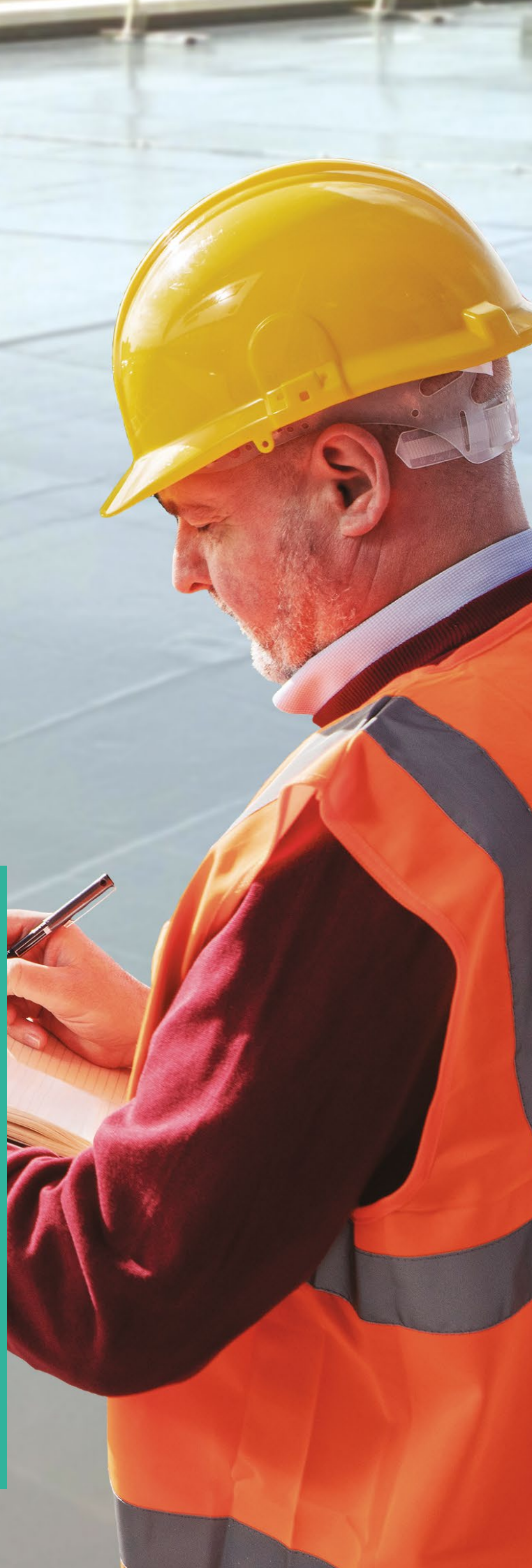
A cold waterproofing roof system



A warm waterproofing roof system



An inverted waterproofing roof system



FEATURES AND BENEFITS



Odourless System

Elastaseal Z has no solvent odour which means no disruptions to the day-to-day operations of a building.



Fast Installation

Wet-on-wet application techniques to dramatically reduce installation times.



Proven Track Record

Established in 1975 and with over 50 years' experience in roof waterproofing systems, Tor Coatings is a true specialist.



Lightweight

Delivers considerable weight savings.



Cold Applied

No need for hot works or naked flames.



Watertight Guarantee

For added peace of mind, Elastaseal Z comes with a comprehensive range of no quibble warranties.



Cost Effective

Our 30-year system option ensures that we can deliver the ultimate, cost effective, high performance solution.



Durable & Slip-Resistant*

Resin technology delivers a tough, slip-resistant surface with unparalleled waterproofing.



Global

Tor Coatings is part of one of the world's largest paint companies and therefore has the scale to deliver.



Ponded Water Resistant

Elastaseal Z is highly resistant to ponded water, providing excellent protection against future leaks.



Seamless

Once applied, Elastaseal Z provides a seamless, joint-free waterproof barrier that allows water to run away freely.



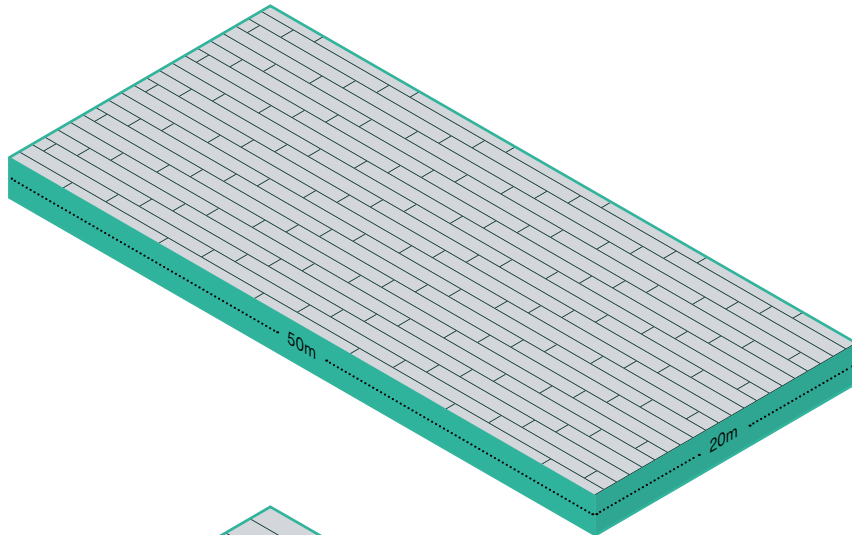
No Disruption

Roof repairs are carried out without removing the existing membrane, minimising disruption.

* Slip resistance is a selectable option.

ZERO JOINTS, ZERO LEAKS

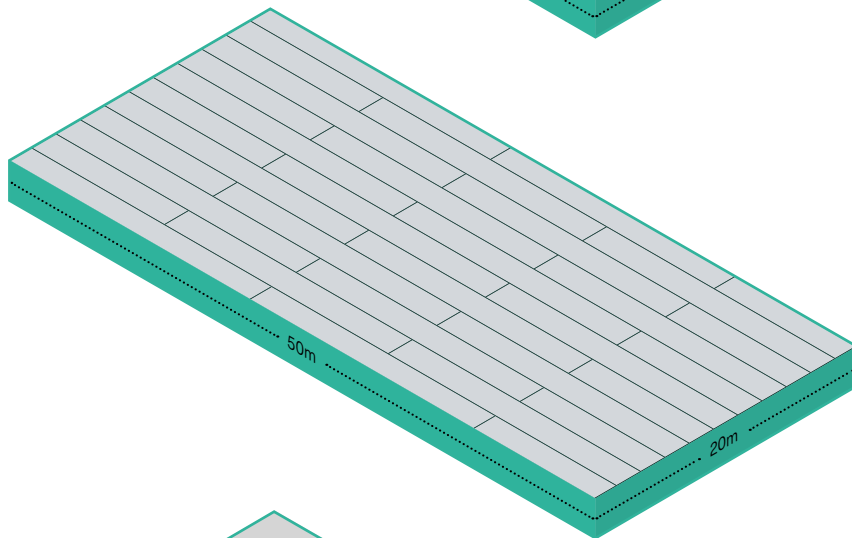
On traditional roof membranes, the potential for leaks is concentrated around the joints and roof details. This graphic demonstrates how liquid waterproofing delivers you unrivalled performance.



Felt Roof

On a 1000m² Felt Roof, the total distance of all joints and seams amounts to a vulnerable area of

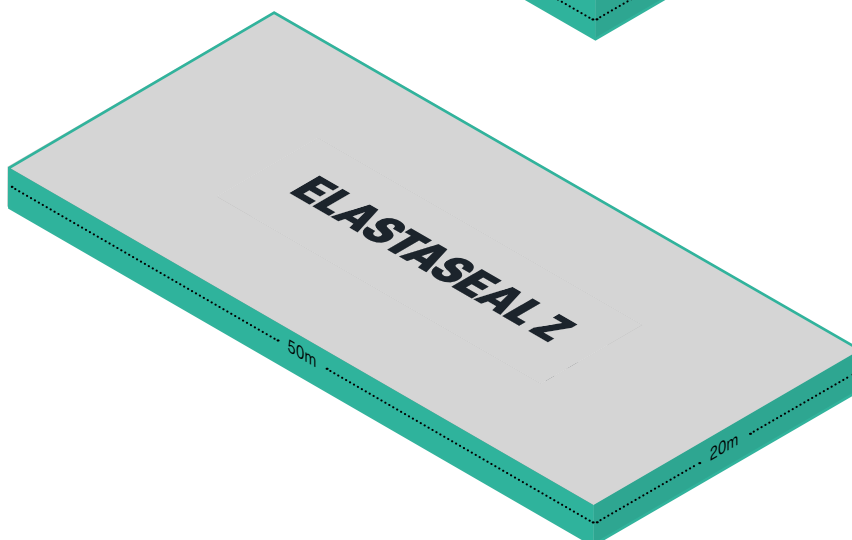
1,364 metres



Single Ply Roof

On a 1000m² Single Ply Roof, the total distance of all joints and seams amounts to a vulnerable area of

652 metres



Liquid Roof

On a 1000m² Elastaseal Z Liquid Roof, the total distance of all joints and seams amounts to a vulnerable area of

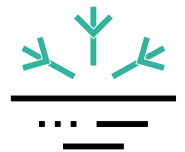
0 metres

What is an overlay system?

In roofing terms, an overlay system is the simplest and lowest cost option. If you have an existing membrane failing but you do not require a thermal upgrade, then Elastaseal Z can be applied directly to the roof in situ, adding a high quality waterproofing membrane. The system will adhere to felt, asphalt, single ply membranes, concrete, metal profiled sheets as well as almost all ferrous and non-ferrous substrates.



COLD OVERLAY ROOF SYSTEM



Elastaseal Z is suitable for waterproofing many types of traditional roofing materials including felt, asphalt, bitumen, asbestos cement sheet, fibre cement sheet, concrete, single ply membranes and profiled metal sheets.

The Elastaseal Z cold liquid system is ideal for roof refurbishment projects as well as new builds. The system is compatible with the majority of existing roof membranes and is particularly beneficial as a long-term solution to commercial buildings with leaking flat roofs.

For further technical information on cold roofs, please visit www.tor-coatings.com

Key features and benefits:

- Cold liquid applied - no hot works on roof
- Safe to install and unobtrusive repairs
- Easy to apply and detail
- Wet-on-wet application
- Compatible with most existing roof membranes
- No need to remove serviceable existing membranes, minimising landfill waste and ensuring the building remains protected during installation
- Up to 30-year systems available
- British Board of Agrément (BBA) accredited
- Permanently elastomeric and seamless
- Excellent resistance to ponded water
- Fibre reinforced for maximum film strength
- Easy to maintain and cost effective

WARM AND CUT TO FALLS ROOF SYSTEMS



The Elastaseal Z warm roofing system provides long-term waterproofing and a complete thermal upgrade to improve the thermal efficiency of your building and reduce your energy bills. Once installed, the system helps lower energy costs by conserving heat within the building during colder months the building during warmer months.

How do we deliver it?

The Elastaseal Z warm roofing system offers a relatively lightweight installation. We will carry out core sampling, U value calculations and a condensation risk analysis in order to determine the thickness of insulation required to deliver compliance with Part L of the Building Regulations. The system build up incorporates a vapour control layer (where required), the fixed insulation boards, a carrier membrane and the Elastaseal Z waterproofing system.

For further technical information on warm and cut to fall roofs, please visit www.tor-coatings.com

Key features and benefits:

- Provides all of the benefits of the Elastaseal Z system
- Cost effective
- Ideal roof refurbishment solution
- Improves thermal efficiency and reduces energy bills
- Wet-on-wet application
- Relatively low weight loadings
- Cut to falls insulation schemes can be designed to manage rainwater off the roof
- Tapered option improves drainage of rainwater
- Minimal disruption to building occupants during installation
- Up to 30-year systems available
- The Elastaseal Z 20 and 25 systems require less coats, saving time and money on-site

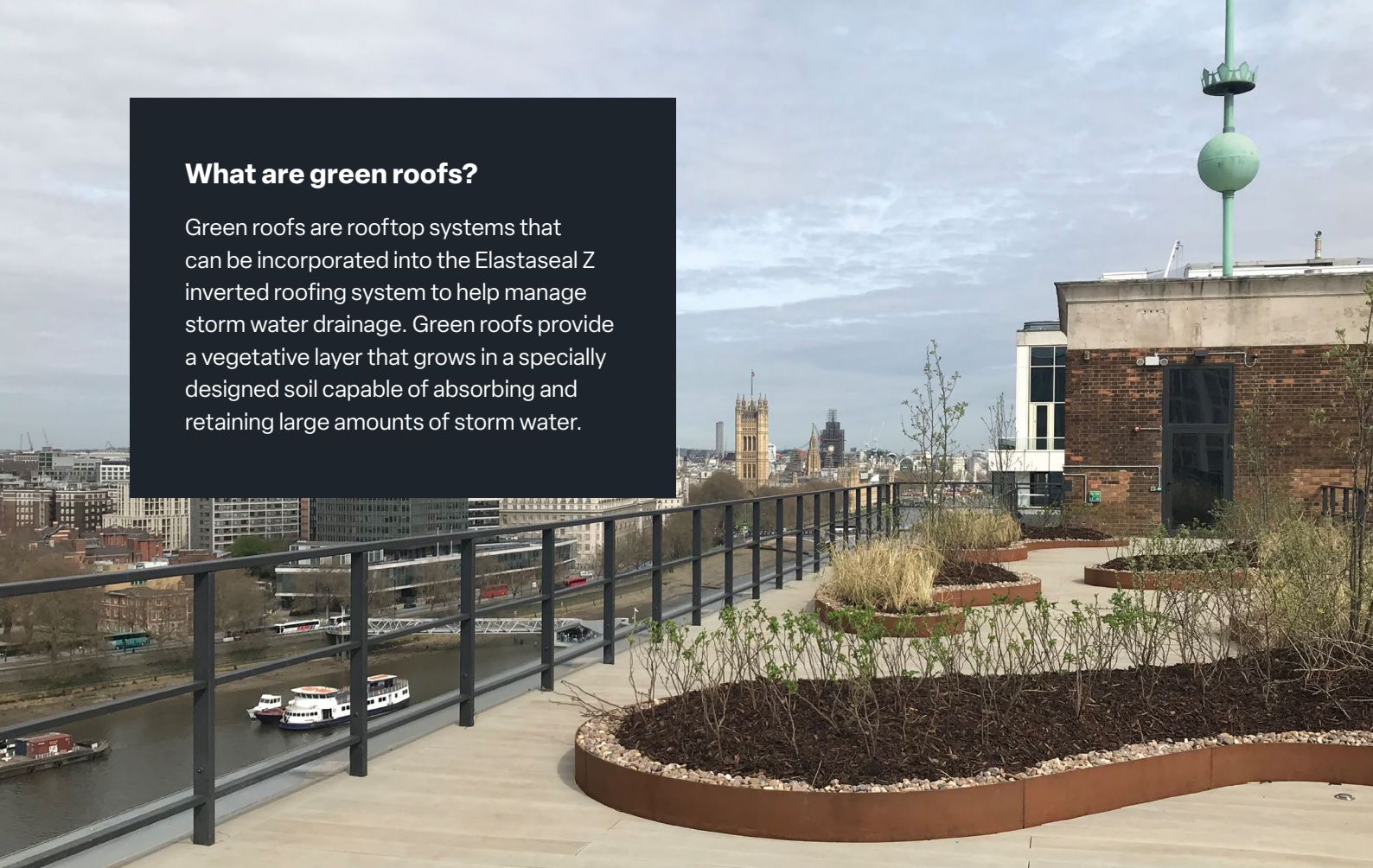
What is a cut to falls system?

When a thermal upgrade is required on your flat roof, we can offer a 3D roof model incorporating tapered insulation panels. You will receive a bespoke design for your project where we create falls on the roof in order to manage the rainfall off the structure. This is a very versatile and low weight option for managing rainwater and avoids areas of ponded water on the roof which can cause leaks.



What are green roofs?

Green roofs are rooftop systems that can be incorporated into the Elastaseal Z inverted roofing system to help manage storm water drainage. Green roofs provide a vegetative layer that grows in a specially designed soil capable of absorbing and retaining large amounts of storm water.



INVERTED AND GREEN ROOF SYSTEMS



Often referred to as a 'protected membrane' or 'upside-down roof', the Elastaseal Z inverted roofing system is applied on top of the waterproofing membrane to improve the appearance of the roof with paving or grass to create roof gardens, terraces or private balconies. Like the warm roof system, the inverted system helps lower energy costs by reducing heat loss from the building. Its seamless nature provides maximum protection and offers significant advantages over sheet systems.

How do we deliver it?

The Elastaseal Z inverted roofing system provides a waterproofing membrane below the insulation layer and directly over the existing roof substrate. The system is usually finished with paving materials to create roof terraces and balconies that can withstand heavy foot traffic. They can also be used with sedum banks to create green roofs or roof gardens.

Key features and benefits:

- Allows creative use of roof space e.g. terraces and roof gardens
- Up to 30-year systems available
- Use of paving to provide an attractive appearance
- Green roofs help with rainwater attenuation
- Comprises high performance insulation and can easily achieve required U-values
- Tough, flexible roofing membrane
- Ideal for new build and refurbishment

For further technical information on inverted roofs, please visit www.tor-coatings.com



TORTHERM

Thermal Insulation

Tortherm is a high performance PIR (polyisocyanurate) rigid foam board, available with a tongue and groove edge detail to help prevent thermal bridging at board joints and provide easy alignment and rapid installation.

When used in conjunction with Tor liquid applied waterproofing systems, Tortherm provides efficient thermal insulation in built-up (BUR) warm roof assemblies, reducing heat loss, boosting energy efficiency and eliminating the need for roof ventilation.

The Tortherm cut to falls schemes offer some real on-site benefits to client and contractors alike. The falls are engineered into the scheme, ensuring the desired effect is delivered as planned rather than relying on the skilled labour on-site.

The boards are also fully bonded during manufacturing, resulting in a faster installation time and considerable weight advantages compared to timber firrings or screeds laid to falls.

Key features and benefits:

- Lightweight and durable
- Rot-proof and maintenance-free
- Inherently safe from harmful interstitial condensation when correctly stored, handled and installed
- The boards are easily cut using a shaped wing-knife or fine-toothed saw

Elastatherm:

We also have a tissue faced PIR board - Elastatherm. This is a square edge board that can be used to reduce costs.

Elastaseal FIA:

Elastaseal FIA is a foaming PU adhesive used for installing Tortherm and Elastatherm. It is delivered by an aerosol / gun combination to give a fast grab and strong adhesive bond.

TORVAP

Vapour Control Layer and Carrier Membrane

TorVap Vapour Control Layer and Carrier Membrane (VCL/CM) is a self-adhesive bituminous waterproofing membrane that forms a total barrier against vapour and gases. It can be used in the Elastaseal Z warm roof system as a self-adhesive vapour control layer and as the self-adhesive carrier membrane over Tortherm Insulation.

TorVap VCL/CM consists of a self-adhesive, low thickness bituminous compound, self-protected by a glass fibre and a reinforced aluminium film. The glass fibre and polyester reinforcement makes the membrane resistant to heavy worksite traffic.

As a vapour control layer, TorVap can be used over most roofing substrates including concrete, timber, metal surfaces, roofing felt, asphalt, single ply membranes. Porous surfaces will require a primer to be applied and cured. As a carrier membrane, TorVap VCL/CM adheres directly onto the silver-faced Tortherm Insulation panel.

Key features and benefits:

- Waterproof and self-adhesive
- Cold applied without use of flames
- Protected with reinforced aluminium film
- Excellent puncture resistance and tensile strength
- Polyester surface accepts most polyurethane adhesives
- Vapour, radon and methane gas barrier
- Fast installation does not require skilled personnel
- Unaffected by environmental pollution and ozone
- Reinforced with glass fibre



TorVap can be used over most roofing substrates:

Concrete Surfaces



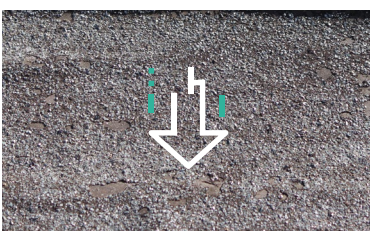
Timber Surfaces



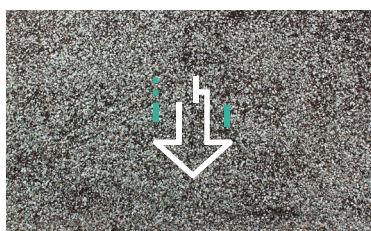
Metal Surfaces



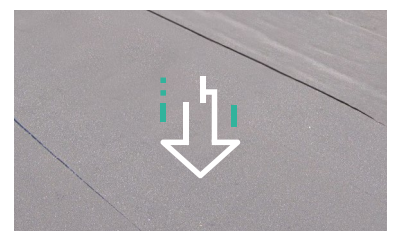
Roofing Felt



Asphalt



Single Ply Membranes



TORTRIM

Roof Trims

The Tortrim range has been developed to complement the Elastaseal Z series and provide a neat, professional finish.

Tortrim can be used with Elastaseal Z warm and cold liquid roofing systems to encourage or prevent water movements off the roof edges.

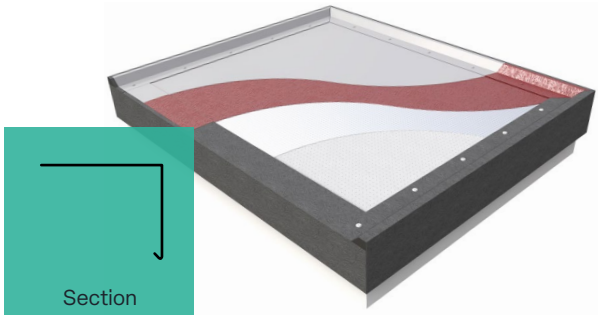
The range is made from high quality GRP and comprises of standard 90 degree drip trims, water check trims with drip details, a hard edge for insulation termination, an internal angle for upstand detailing and a termination bar. It also accommodates the vertical trim depth requirements for the common Tortherm Insulation depths, to ensure a quality, professional finish is achieved. Tortrim is also supplied with a reinforcing strap to allow easy gluing of the trim lengths before fixing.



PRODUCT RANGE

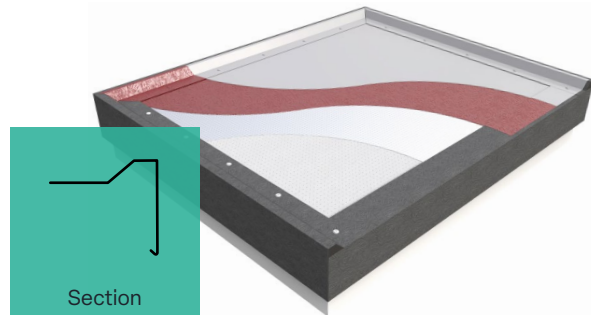
Tortrim Drip Trim

A GRP drip trim finished in black, available with **75, 130** or **150mm** vertical drop.



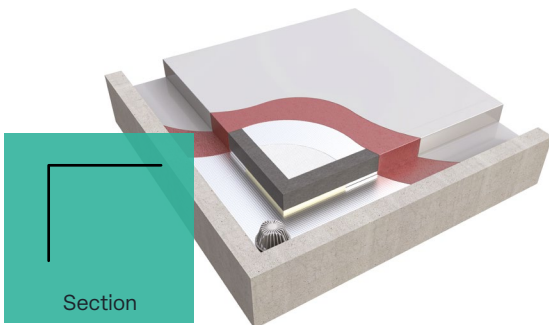
Tortrim Water Check

A GRP watercheck trim finished in black, available with **75, 130** or **150mm** vertical drop.



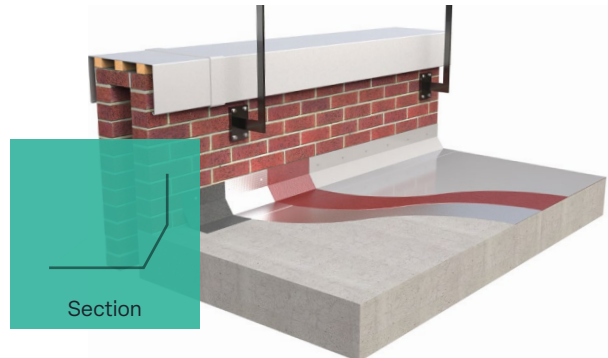
Tortrim Hard Edge

Used to create a firm termination when constructing gutters in a warm roof.



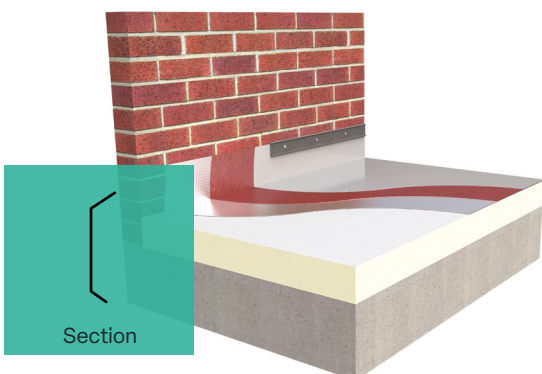
Tortrim Upstand Fillet

Creates a smooth, even surface when trying to coat uneven upstands.



Tortrim Termination Bar

For use on a variety of upstands to professionally terminate the waterproofing system.



“We were very pleased with the work done to our Early Years roof thanks to the professionalism of Tor Coatings and our contractors Sterling Roofing. Everything was explained to us about the product and the application, all of the work was completed before the estimated time, and the site was left clean and tidy. The back up and warranty from Tor Coatings was another reason for us choosing them for our project.”

Andy Mercer, Early Years Centre

TorGuard

For added peace of mind, all of our clients and specifiers also benefit from our insurance-backed guarantee, TorGuard. TorGuard is provided free of charge for projects installed by our Tor Partners contractor network to give an additional level of cover. If a fault develops due to either an application or product fault then the issue will be remedied under the guarantee.

OUR WATERTIGHT GUARANTEES

At Tor Coatings, we are passionate about the work we do and take pride in delivering the results you want, the way you want them. That's why our service doesn't just end when your project ends. By choosing us as your supplier, you can be safe in the knowledge that you'll be receiving a high quality system, outstanding service and complete peace of mind throughout your project and beyond.

Warranties:

All of our roofing systems are covered by our comprehensive no quibble warranties. Each scheme is also covered by an insurance backed policy which we pay for*.

And by no quibble, we mean just that. If you experience complications with any aspect of your project following completion, our experienced team of site specialists will work with you to resolve any issues as quickly and efficiently as possible. No challenges, no problems, no fuss. That's our promise to you.

* subject to underwriters terms and conditions



TRAINING

We all know that any roofing system is only as good as the people who install it on your site so, here at Tor Coatings, we have invested in a state-of-the-art training facility at our head office in Birtley.

As part of a drive to ensure that our clients receive the highest quality roof installations, every month we have 4 days put aside for training. Our Tor Partner contractors receive practical demonstrations and can apply the coating systems onto realistic roofing rigs which simulate real life challenges.

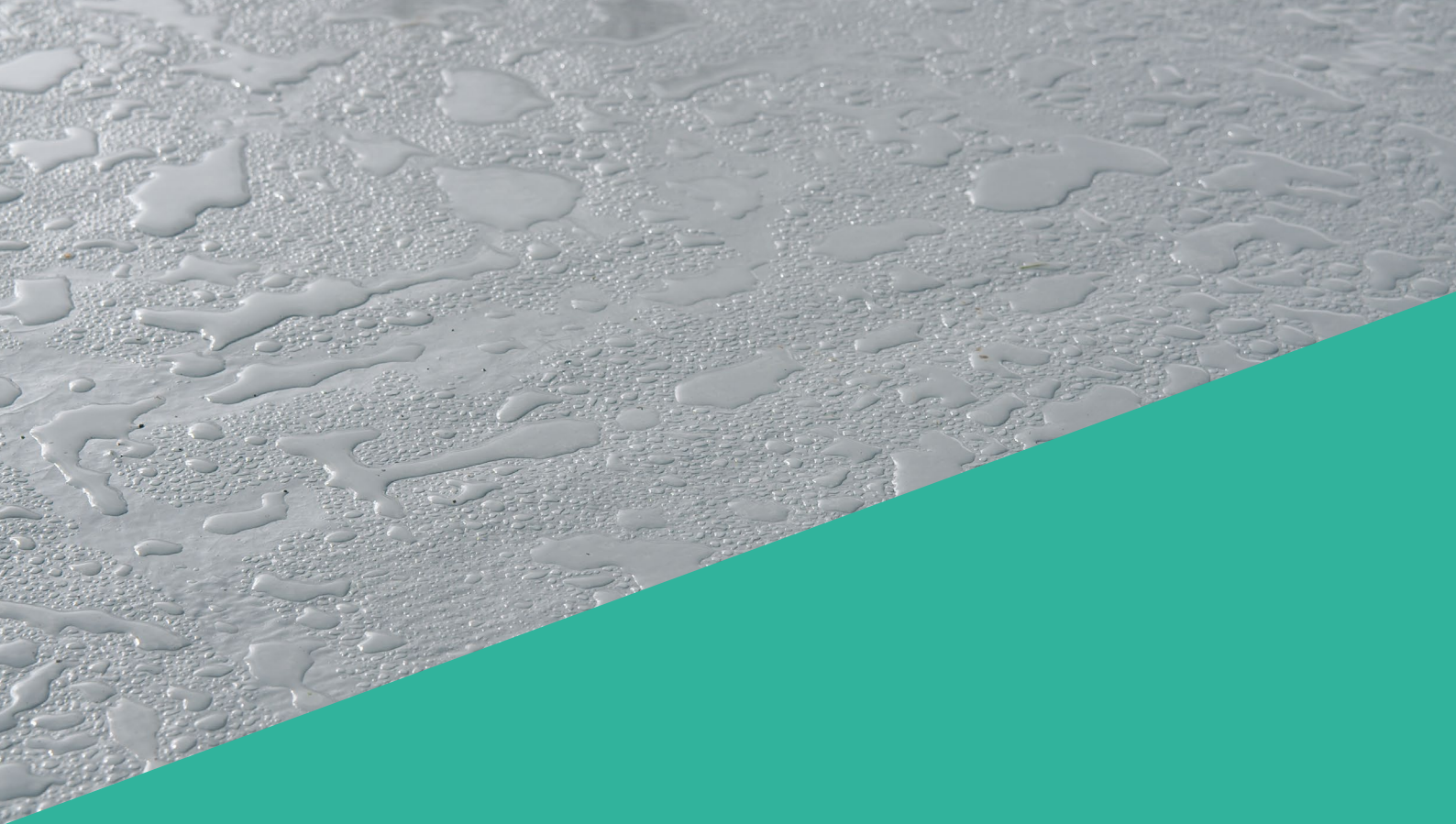
We also offer the same training in London to service the Southern contractor base and can do training at the contractor's offices provided we have a safe place to use. Our technical services team also carry out site inspections and reports to ensure that our projects are being installed to the correct standards.



“We use the Elastaseal Z range on a nuclear facility in Cheshire. It was the only product to pass internal air monitoring tests. Additionally, the low odour range extends to primers, something that is very often overlooked. Site application is good and our operatives comment on ease of use - it also helps to add the accelerator to speed up drying in winter.”

Jim Kennedy, Surface Protection





THE SCALE TO DELIVER

Our nationwide team of Area Business Managers offer unrivalled expertise and knowledge supported by our dedicated customer services team, our team of experienced coatings chemists and our technical help desk.

To arrange your FREE site survey, please contact us either via our website at www.tor-coatings.com or on the phone number below.

ELASTASEAL Z

Tor Coatings

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