

INSIGHT

SERVING THE ROOFING INDUSTRY

FROM **SIG** ROOFING

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Taking a closer look at industry myths

Like a lot of other industries, there are many misconceptions in the roofing industry, from the best materials and products to use, to the standards you need to follow. In this issue of INSIGHT we speak to members of our industry to see what common misconceptions we can resolve and find out about innovations that could change the way we work and think about roofing.

There's a widely-held belief that people used to think the world was flat (apparently some still do!) and that if you went far enough you'd fall off. This illustrates how myths and misconceptions can affect how we behave and what we achieve - who wants to risk getting in a boat to discover new lands if you think you're going to sail off the edge of the world?

Roofing, as with many industries, is awash with beliefs about best practice, products and materials; some of these will be right,

others quite definitely not so. What is true is that myths serve only one purpose - to muddy the waters and whilst doing so getting in the way of the job at hand. Busting these misconceptions helps provide clarity and shine a light on how to get the best results possible with the minimum of fuss.

In that spirit this issue looks at some of the areas in roofing where, contrary to commonly held ideas, there might be a better way. Things change, so what was true 10 or even 5 years ago might not be the case now. There's a lot to look out for including the most frequently asked questions in industrial roofing and cladding (page 30), how to choose the right pitched roof accessories for the job (page 16) and how to guard against wind uplift (page 17).

For editorial enquiries please contact the editor at insightmag@sigroofing.co.uk

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In addition, new guidelines were recently issued for safe practice when using gas torches on Torch On membranes and you can find out how to become Safe2Torch Registered (page 22). Plus, find out why the future is blue roofs, which provide sustainable drainage solutions during heavy rainfall (page 6).

You can also find information on the benefits of aluminium (page 27) and get a free sample of easy to fit single piece tile clips (page 18). Along with tips for installing

the best flat roof possible (page 24) and how EPDM can overlay virtually any flat roof (page 26). We also talk about how to reduce sound transmission in a metal roof (page 33) and how bespoke solutions are more accessible than ever before, whilst still giving you the right WOW factor (page 28).

In conclusion, in any industry there will always be myths to dispel. So, next time you hear an industry myth, remember to ask yourself, "Is it really true?"

Don't Forget...

You can flick to the back for a handy index of all our contributors and use our reader response card to make finding out more even easier.

IN THIS ISSUE:

- Marley Eternit reveals the 2018 new dry fix Standard BS 8612
- SIGA explain the importance of graded slates
- Get off to a good start with Steadman's key factors for a successful industrial project
- SIGnature share their simple steps to help your heritage project run smoothly
- Klober helps to increase your roofing product know-how

COMPETITION WINNER

Congratulations to our reader Dean Engall of DK Engall who is our latest competition winner!

Dean entered our INSIGHT issue 30 word search competition to win a two-step ladder!

We asked Dean why he reads INSIGHT and he told us: *"I have been reading INSIGHT since it's first issue and it's either posted to me or I pick it up from SIG Roofing. I've been in the building industry since 1979, I'm a jobbing builder and a carpenter by trade and I also do roofing work. I really enjoy my job and INSIGHT helps me to keep abreast with BS Standards, health & safety and new products, as they're always changing, or there's something new or a different way of doing things. It's great that I've won, but I think I might struggle to reach the roof with it!!"*

Have your chance to win a two-step ladder on page 35.

Our online home

Get a deeper insight into all things roofing at www.sigroofing.co.uk/insightmag

Roofing news

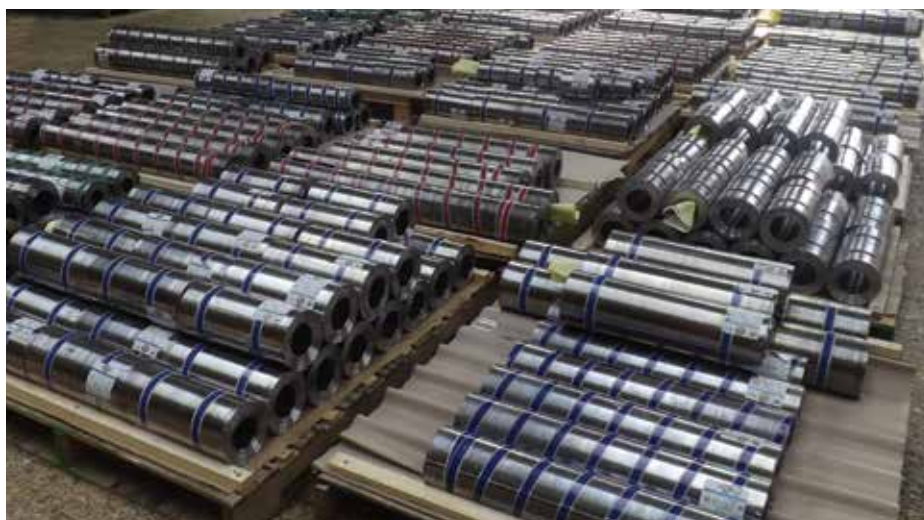
Batteries included

Envirolead, the lead roll made almost exclusively from recycled car batteries, has one of the industry's strongest environmental stories, which is why more and more are making it their number one choice.

Next time you're buying a roll of lead it's worth remembering that there's more to it than meets the eye. Today it's possible to source your rolled lead sheet with impeccable environmental credentials that are proven to be sustainable, green and good for the planet.

Envirolead, for example, is made from discarded lead and acid car batteries, which used to be a massive source of toxic pollution. Now, instead of clogging up the nation's landfill, a significant proportion of these batteries are recycled with 96% of their parts reused.

And it doesn't stop there; after the lead is extracted it is milled into BS EN 12588:06 lead roll - the highest quality possible - and the left over sulphuric acid is recycled into sodium sulphate (salt), to be used in the detergent and glazing industries. Even the casing is chipped, washed and bagged and used in the vehicle industry.



An added benefit is the Transparency Of Product Hallmark And Traceability (TOPHAT) scheme, which guarantees the source and quality of the lead installed or specified by covering traceability of product, hallmarking and transparency of source. Also as part of the TOPHAT process, ALM and JML will monitor who is registering their works for the guarantee and will recommend them to architects for future projects, thus offering contractors additional opportunities to benefit from the scheme as well as Envirolead's quality credentials.

To join the TOPHAT scheme all you have to do is agree to use Envirolead lead sheets and by doing so you guarantee the

material is from a fully documented and trusted source. In addition when Envirolead and Premium Roofing Products are used together, installers can then offer a 50-year warranty to customers backed and provided by the Lead Sheet Association.

So when you need lead roll with proven environmental credentials, along with recommendations for future jobs, a scheme like Envirolead could be the solution.



in brief

Training comes to you!

In-branch demonstration days provide free tuition from one of the UK's leading roofing manufacturers.

Hambleside Danelaw's appointment of a dedicated Field Product Support Technician means that from now on you can access top quality training on your doorstep. And it's free!

Hambleside Danelaw's on-the-road training has been helping familiarise users of the company's products with the best installation methods. It also helps customers choose the right product for their application from their extensive range.



After initially focussing on supporting contractors on site, the service has now developed to offer product demonstrations at merchants for contractors. You will learn about new innovative products and best practice. The training will also support you to make more informed decisions on the most suitable products for your job and how best to fit them, thereby broadening your understanding of roofing system solutions. As a result, it could help you to win more work, reduce costs and give peace of mind to your customer.

As a leading UK manufacturer of quality pitched roofing products, GRP rooflights and cladding, this is the first time the company has offered this kind of training on a local basis. It gives contractors the chance to hear about new products, see

them in action first hand and learn the latest techniques; all of which can only help Hambleside to deliver on their ambition to improve Standards and practices across the construction industry.

Complete our reader response below to arrange for a demonstration day in your area, and let the training come to you!



**For more information
please fill in the
reader response card**

ENQUIRY I

Blue sky thinking at its finest



Kevin Taylor, Head of Technical Services at the National Federation of Roofing Contractors (NFRC) explains how blue roofs provide valuable sustainable drainage solutions.

While most of us working in construction are familiar with green roofs, it's fair to say blue roofs are less well-known. To address this gap in our collective knowledge and promote the benefits blue roofs can bring to contractors, the NFRC has created new technical guidance for specifiers, designers and installers.



WHAT IS A BLUE ROOF?

A blue roof is designed to manage water during periods of heavy rain fall. Rather than allowing water to drain off the roof immediately, it deliberately retains some or all of the water.

Water is then treated and released at a controlled rate directly into sewers, waterways and river systems, replicating the natural environment.

Blue roofs are attractive to contractors because they provide:

- A Sustainable Urban Drainage System, which is a prerequisite in most new developments due to urban flooding caused by storm water runoff
- Storm water management to temporarily reduce the impact of rainwater runoff, both on water volume and quality
- Ground level solutions and space savers which provide an attractive opportunity for developers



WHAT'S NEW?

Blue roofing is not a new concept and has been used in many cities across America for the last 50 years. However, until now there has been no British or European Standards to cover this type of application.

This is why the NFRC has brought together a specially formed group of experts - the NFRC Joint Flat Roofing Technical Committee - which includes membrane and system manufacturers, insulation producers, Standards and certification bodies, drainage consultants and representatives from flat roofing trade associations.

Together they have created regulation advice similar to the Green Roof Code of Practice (GRO).

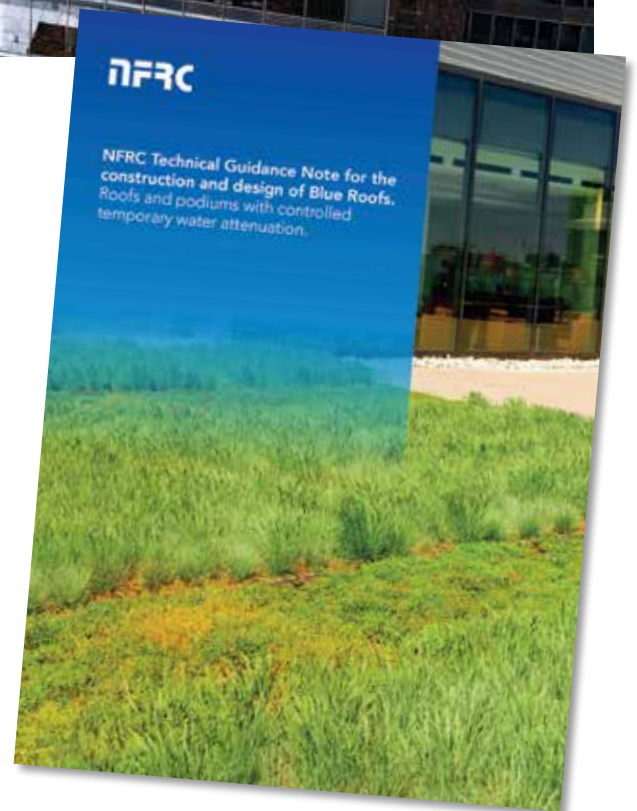
THE FUTURE IS BLUE

The Government's Water Strategy for England acknowledged that the pre-existing below-ground pipe systems do not cope adequately with extreme rainfall

events. As a result, there has been an increase in pressure on the construction industry to incorporate water management and climate change mitigation.

Both blue and green roofs provide excellent systems with sustainable roof drainage solutions for the roofing sector and therefore we will continue to see an increase in their requirement. The NFRC wants to help its members to look to the future and be ahead of the curve. The new technical guidance will help contractors do just that and will support upskilling across our sector.

To find out more about how blue roofs can benefit you and your customers visit the NFRC's website at: www.nfrc.co.uk/blue-roofs.



NFRC

COLLECTIVE MARK

THE NATIONAL FEDERATION OF
ROOFING CONTRACTORS LIMITED

If it ain't broke...

Why do we buy the products we buy, and what's brand got to do with it?

As the saying goes, if it ain't broke don't fix it and this is particularly true with brands - we trust manufacturers to bring us a quality product and not to change a winning formula which we've grown to rely on for consistent quality. There are some institutions you just don't mess with; the recipes for Coca-Cola and Heinz Tomato Ketchup spring immediately to mind, as does anything narrated by David Attenborough - who has just been voted the most trusted celebrity in the UK.

Ultimately, brands should give us peace of mind by reducing risk and adding value. This knowledge and subsequent brand loyalty saves us valuable decision making and potentially installation time as it reflects what we like and are used to as individuals - you buy that roof tile because it's simple to lay; you buy that brick because it'll give that natural clay look; you buy that paver because you know you can rely on it. In



construction, Sandtoft is one such institution; a heritage brand synonymous with quality and trusted by contractors as their go-to clay and concrete tile of choice. Not something you want to mess with!

Fortunately, when Wienerberger bought Sandtoft in 2009, they recognised the power of the Sandtoft brand and the importance of staying true to the values that make it such a popular choice. From the beginning they knew they weren't going to change anything fundamental about the tile-craft and they also knew they needed to ensure the loyal Sandtoft customer that they actually meant it and were committed to maintaining the highest levels of quality and care.

It's a great example of a bigger company knowing they have a winning formula that doesn't need tinkering with. Wienerberger

understand that the reason Sandtoft became such a recognisable name in roofing in the first place is, first and foremost - because it's a great product. It's why they bought it. Their customers benefit from the protection and reach that being part of a larger organisation such as Wienerberger brings. While you'll now find the Wienerberger flame on the Sandtoft literature and packaging, the quality remains exactly the same, which is good news all round.

It's true that brand matters, although it's very much tied to an understanding that manufacturers need to be sensitive to the past and present loyalties of contractors - and sometimes just let the product do the talking.



How the batten business has evolved

The roofing batten business has changed beyond recognition since SR Timber Managing Director Shaun Revill joined it over 25 years ago.

Back in the early nineties batten was often considered a fairly anonymous product, sometimes lumped together with fencing and tucked away in the corner. Not any more. Fast forward to 2018 and over the years batten has emerged as an essential component of the roof build up.

Drive around the country and there are a significant number of large new housing projects under development and the quality of the batten being used on most, if not all, is very high indeed. This hasn't always been the case; go back only a few years and you'd find a much greater mix in the quality of batten in use - a sure sign how quality graded batten has become an essential part of the roof build up.

But what changed? According to Shaun there are three main factors at play; BS 5534:2014, batten size and the country of production.



BS 5534:2014

The 2014 changes to BS 5534 detail how and when graded batten should be used. In reality, the industry had been moving towards the British Standard in the years before it was introduced because of companies like SR Timber setting higher standards for their batten. This was married with the efforts made by various trade bodies such as the NFRC and the CompetentRoofer Scheme to come to a consensus on what the Standard should be and resulted in the introduction of BS 5534 which greatly impacted the quality and method of grading batten.

BATTEN SIZE

Shaun remembers when there were two main size choices of batten: 19mm x 38mm, which was used for slating and 25mm x 38mm. By the end of the nineties, 19mm was on its way out and 25mm x 50mm was starting to come into play - driven in no small part by safety concerns that would go on to become the backbone of a new British Standard.

COUNTRY OF PRODUCTION

Another crucial piece of the jigsaw has been the sourcing of raw materials from the Baltic states, in particular Latvia. The

industry in Latvia has been supported from the government down in terms of developing the infrastructure and industry skills required. SR Timber, by establishing its own sawmill in Latvia, now have complete control of the batten manufacturing process from the forest to the roof. This means they are in control of the whole supply chain, which is a key factor in ensuring that batten is produced and graded correctly to the requirements set out in the Standards.

It's highly likely the batten industry will continue to develop and change over time. It's also likely that whatever those changes turn out to be, SR Timber will be at the heart of them.



**For more information
please fill in the
reader response card**

ENQUIRY 2

Make a breeze of wind loading



Understanding wind loadings is crucial for a successful roof, as the structural design can prevent damage to a roof.

Wind load is the load in pounds per square foot placed on the exterior of the roof by wind, this is impacted by the angle that the wind strikes the roof, as well as the shape of it. Preventing wind damage involves strengthening areas where the roof could come apart. For example, roof overhangs tend to trap air beneath them, resulting in high uplifting forces, making it susceptible to damage.

Wind speeds and loading vary all over the UK and there are several factors you need to bear in mind when designing a roof and deciding how to fix it in place.

LOCATION. LOCATION. LOCATION.

The main factor to consider is location and topography; where the building is and what surrounds it. For instance, is the building next to open terrain, such as the sea or a plain? Wind speed over flat surfaces is a lot faster than when it's been disrupted by hills.



Similarly, wind gains speed as it moves uphill: the steeper the slope, the greater the wind uplift. This means buildings at the crest of a hill need different fixings to those at the bottom. As a rule of thumb, we add hills into our calculations when a slope is more than 10% and when the building is more than halfway up.

The basic rule is that mono pitch roofs

have the strongest wind uplift, whatever their pitch but, generally, the lower the roof pitch, the more wind uplift there is acting on it. Steeper roof pitches give some shelter to their leeward side (negative) while lower pitches give less protection to their leeward side, as well as exposing their leading edge. Chimneys and dormers can also cause turbulence at the perimeters.



UNDERLAYS

Some of the most important parts of the roof are those you can't see. Fixings and underlay play a huge role in the integrity of a building's roof but are as invisible as its foundations.

Research shows that roofs without underlay are five times more likely to sustain damage than those with underlay. This is because the underlay keeps the internal and external pressures separate. Internally, uplift forces act on the roof underlay whenever air can move within the building to the underside of the roof covering. Instead of this uplift load affecting the underside of the roof, its full impact is taken by the underlay.

FIXINGS

Every tile or fitting must be fixed using either a nail, a screw or a specially designed clip. Research shows that the most secure fixing is a combination of both nail and clip, giving a resistance of more than 200 Newtons/m² - that's more than seven times as secure as a single nail or twice as strong as a fully clipped.

Most tile failures on a pitched roof occur because there has not been any fixing specification. BS 5534:2014, the latest Standard, requires a calculated fixing specification for your roof. It's important you get one for each job and each tile type because the specification can vary between manufacturers and needs to be tailored to each site and location.

Understanding the different factors that affect how wind influences a building is an essential part of creating a successful roof. The location, topography, underlay and fixings each need to be considered. Put them all together and your roof should stand the test of time.



**For more information
please fill in the
reader response card**

ENQUIRY 3

Keeping up appearances

If you're embarking on a heritage project, following a few simple steps can help you restore an original clay roof to its former glory.



The need to preserve our architectural heritage for generations to come immediately sets heritage projects and those in conservation areas apart from other jobs. When it comes to clay roofs there are things you can and can't do when you're working on a restoration or conservation project, so here are some simple tips to help ensure your project runs a little more smoothly.

ALWAYS GET CONSENT

The requirement for heritage properties and those that lie in conservation areas is that the replacement roof needs to match the aesthetics of the original. So wherever a building traditionally had a handmade clay tile roof, tiles of the same material should be used in order to enhance its character and appearance. Even in the case of minor repairs, replacing them with modern substitute materials is normally unacceptable. Whilst Listed Building Consent is required to alter the design, materials and colour of any roofs on a listed building, it can also be required when carrying out repairs to the structure. If in doubt, always check with the Local Authority Planning department.



CHOOSE THE RIGHT PRODUCT

Clay tiles have a natural beauty and rustic charm characterised by shapes, textures, and warm colours; when faced with restoring an original roof they truly come into their own. They are available in handmade, hand crafted, and machine made options so you need to choose the one that best suits your particular project.

One option is to repair the roof with the original clay tiles to achieve a perfect match, so second hand or reclaimed tiles may need to be sourced, however finding products that have the required quality for re-use can be a challenge. Reclaimed materials must be carefully selected to ensure they are sound and of consistent colouring as they come with the risk of being of lower quality due to age, unknown previous use, and uncertain life span and normally have no warranty.

Another option is to find a quality alternative and get approval to use it. Amongst the alternative options are:

- Handmade clay tiles that closely match the original tiles and blend in with the local area. They boast the ultimate in quality, aesthetics and performance, add character and enhance the beauty of any building. In addition, they come with robust warranties, offering quality and peace of mind
- Hand crafted clay tiles are naturally colourfast and durable and may be a suitable option if the building had these coverings when it was listed
- Machine made clay tiles can be used to restore the roof if the original roof is made up of matching machine made tiles. The tiles hold their hue and mature with age so are an excellent option



GET EXPERT HELP

It really pays to work alongside specialist heritage and conservation architects who can support you with planning permission, sourcing appropriate materials, and advise on the most appropriate building methods. Getting them involved early on will avoid problems further down the line. In the same vein, enlisting the help of a reputable local roofing supplier, who can help navigate through the whole process and provide samples to ensure product accuracy, together with a range of appropriate fixings, will make the whole experience a lot easier.

The heritage of our traditional roofs will be preserved by using the best products combined with the best advice, ensuring our architectural heritage will be represented in the roofs, new and old, for many generations to come.

SIGNATURE^S
CLAY TILES

**For more information
please fill in the
reader response card**

ENQUIRY 4

What does the new dry fix Standard mean for you?

MYTH
BUSTING

2018 sees the introduction of a new British Standard, BS 8612: Dry-fixed Ridge, Hip and Verge Systems for Slating and Tiling. Marley Eternit explain how it affects roofing contractors.

The new Standard aims to bring consistency to the quality of components used in different dry fix systems. It defines the performance requirements including durability, mechanical fixing and weather resistance and is the first quality Standard specifically for dry fix products. It's a positive move and should help contractors make more informed choices about the systems we buy.

As most of the onus is on manufacturers to make sure their products are compliant with the new requirements the Standard shouldn't have a huge impact on roofing contractors.



Having said that, there are still a couple of things you'll need to do differently as a result:

- Make sure all dry fix systems you use that require BS 8612 compliance meet the requirements or have BBA Certification. To check this, look at the product's accompanying documentation, which should be marked BS 8612 compliant and also show the maximum wind speed for the system
- Under the new Standard, Dry Verge products can no longer be installed just with a nail straight into the end grain of the batten. In anticipation of this change, Marley Eternit has developed a new Batten End Clip, to help you ensure that the dry verge is fixed securely and centrally into the end of the batten

The best advice is not to wait until the end of the transition period. Switch over to BS 8612 compliant products as soon as possible. To help you ensure all the products you use comply, all of Marley Eternit's dry fix systems have been tested rigorously, giving you peace of mind that they will be compliant with BS 8612 as soon as it's launched.



 **MarleyEternit**

**For more information
please fill in the
reader response card**

ENQUIRY 5

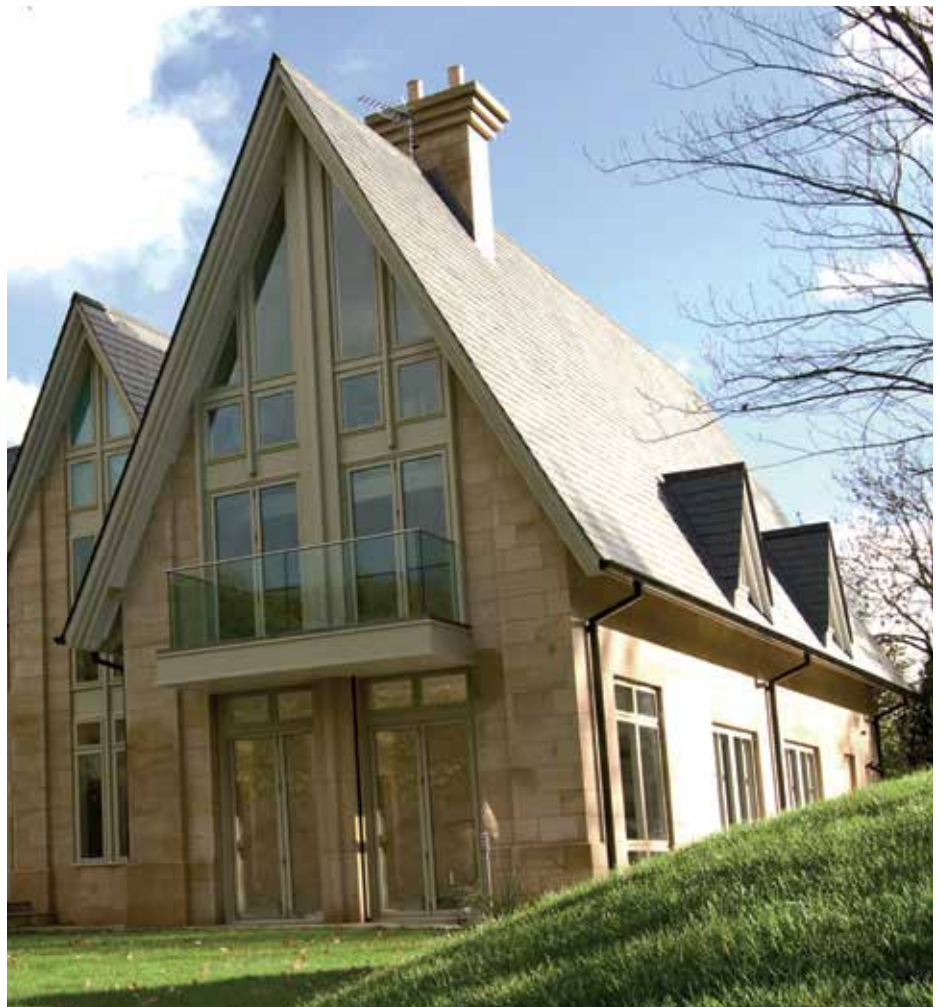
Better slate than ever!



Although demand for premium natural roofing slate is strong, you need to make sure you get what you pay for.

There's no substitute for quality and this is certainly true with slate. However, the use of lower-grade slates which don't meet British Standards and are sometimes being sold at premium prices persists. T2 and T3 slates are graded like that for a reason and no-one wants to pay top price for a product that isn't up to scratch, so let's just remind ourselves of some of the pitfalls of using a lower-quality option.

In terms of quality testing for compliance with BS EN 12326:2014, T2 slates show signs of oxidation or appearance changes of the metallic inclusions that may cause staining, pitting and/or delamination and potential failure of the slate in as little as three weeks. Even to the trained eye, inferior slate may be riddled with inconsistencies and imperfections that can affect its durability and performance over time, resulting in increased wastage and labour costs. Quite simply the NHBC prohibits these slates, the lifetime performance is less and the chain of custody isn't as reliable.



All of this paints a pretty convincing picture as to why opting for a lower-quality slate is always going to be a false economy in the long run. Moreover, if there are any problems or issues with the job

further down the line then you may incur additional costs at your own expense. The good news is that by using a reputable supplier like SIGA Natural Slate you avoid all of that in one fell swoop.



THE GOOD STUFF

SIGA were the first major distributor to discontinue T2 slates back in January 2016, that means ALL SIGA slate is T1:

- They are fully compliant with CE and Construction Products Regulations
- Come with warranties of up to 75 years that offer the assurance of consistent quality and full traceability, from the quarry to the roof
- Comply with any environmental and carbon footprint policies
- Full traceability fulfils a much more fundamental requirement if identical slates are ever needed in the future for redevelopment, refurbishment or extensions

It's also worth noting that in 2009, the National House Building Council (NHBC) took the decision to recommend only T1 slates, and went so far as to ban the use of any other grade, such as T2, on new builds.

If that wasn't enough, with T1 slate you get much lower wastage rates, which in turn means lower labour costs and faster completions. On top of that SIGA provide a level of technical support, datasheets, CPDs and health and safety advice that is second to none.

The moral of the story? You don't always get what you pay for with slate.

Unless that is you use a supplier like SIGA.

In which case you most certainly do.



British Standards Thermal Cycle tests

Slate tile quality is governed by British Standard EN 12326:2014, and one of the main tests is the 'thermal cycle' test, which assesses the levels of rust or oxidation within the slate and involves repeatedly soaking pieces of slate in water and then drying them out over a period of up to three weeks. If there's no apparent change or minimal surface rust/changes to affect the structure or cause runs of discolouration, the slate is classed as T1.

T1: No apparent change or some surface rust or other changes that neither affect the structure, nor form runs of discolouration.

T2: Oxidation or appearance changes of the metallic inclusions with runs of discolouration but without structural changes.

T3: Oxidation or appearance changes of metallic minerals that penetrate the slate and risk forming holes.

SIGA
Natural Slate

For more information please fill in the reader response card

ENQUIRY 6

Product know-how

Klober help to put right some misconceptions about commonly used roofing products.

MYTH
BUSTING

When you're completing a roof there are a number of areas where misunderstandings over what works and what doesn't can creep in. To help, the experts from Klober have highlighted some of the main points to be aware of when it comes to roofing accessories so you can finish the roof correctly.

DO I REALLY NEED TO USE AIR-OPEN UNDERLAYS?

The answer is yes unless you are adding supporting high level ventilation at or near the ridge. At the moment, Klober Permo® Air is one of only two air-open products on the market, so if you are told a product is air-open it's always worth checking on the manufacturer's website to see what the performance is.

ARE ALL LEAD-FREE FLASHINGS PRETTY MUCH THE SAME?

Definitely not, as they all vary in appearance and performance. There is a quick test to see how well one will perform - take two pieces of a product, such as Klober Wakaflex, peel off the backing of one and stick it to the facing of the other. You should find it almost impossible to break the bond and if that isn't the case the product you have chosen is unlikely to last long.



IF I HAVE TO SEAL LAPS WHEN INSTALLING AN UNDERLAY WILL STANDARD DOUBLE-SIDED TAPE DO THE JOB?

Unfortunately it won't. Tapes for this type of work need to be able to stick to rough and sometimes dusty surfaces, so you definitely need a product designed for the job. Alternatively, if you don't want to waste time using a separate tape, an underlay such as Permo forte RS SK2 has edge tapes to guarantee a strong and durable airtight seal.

ARE THERE ANY DIFFERENCES WITH DRY VERGES?

Dry verges are made from different materials, for example polypropylene or PVC, and it's these materials that often make a difference. Klober's Uni-Click dry verge is now made from polypropylene, which means it's lighter in weight - however it will last longer and is very durable. It's also totally recyclable. This may not make much difference when fitting, however it is a factor that many self-builders are now taking notice of.

These are just some of the things to watch out for when using accessories to finish a roof.

So whether you need help with choosing the right roofing product for your job or want to keep up to date with the latest roofing developments, then do check with the supplier or manufacturer. Quality suppliers and manufacturers like Klober are more than likely able to offer support, provide technical advice and training. Not only will this increase your product know-how, it will also give you the confidence that the product is up to the job. That means you'll get less call backs and gives your customer peace of mind.

KLOBER
Professional roofing accessories

For more information
please fill in the
reader response card

ENQUIRY 7

No half measures

How following best practice can guard against wind uplift on slate roofs.

MYTH
BUSTING

When you're planning a slate roof, there are several connected factors to consider before you start, such as; the sites exposure to rain, the degree of the pitch and roof structure, wind loads and uplifts and the minimum headlap for the size of slate selected.

The minimum headlap is a particular detail that is important to bear in mind when it comes to the roof verge, especially as correct installation at the verge is often misunderstood. It is vital to get this right as the perimeter of the roof is the most vulnerable to wind suction loading and as such, secure fixing of the verge slates will contribute to creating a long-lasting roof covering.



BEST PRACTICE FOR VERGE INSTALLATION

The verge is formed from alternate courses of slate and a half (cut from double slates) and single slates. This is where the confusion lies. The second under eaves course should be a slate and a half, as should alternate verge slates. Rather than use a slate and a half, many roofers will cut a normal size slate in half and use that, to create the broken bond. This looks aesthetically pleasing, however doesn't give adequate wind uplift resistance.

To install correctly and make sure the roof is secure, follow these simple steps:

- The first full slate will need an additional hole (batten gauge plus 25mm from the tail) to accommodate the rivet for the next slate and a half
- This next slate and a half will need three nail fixing holes on the batten line: two rivet holes to hold the tail and an additional hole to accommodate the rivet for the subsequent single verge slate
- When trimming to verges, valleys, and hips, avoid using pieces less than 150mm wide. If possible, use a slate and a half with the cut edges protected with a dry fixing system to prevent cement run off due to exposure to weather

Years of experience of both successful slating practice and failed roofs is enshrined in the British Standards code of practice. Therefore, following the correct Standard and procedure for installing verges will ensure there is enough fixings at a location where the roof is vulnerable to wind upload and help ensure the roof is robust enough to withstand even the harshest conditions.



CEMBRIT

Building Better Days

For more information
please fill in the
reader response card

ENQUIRY 8

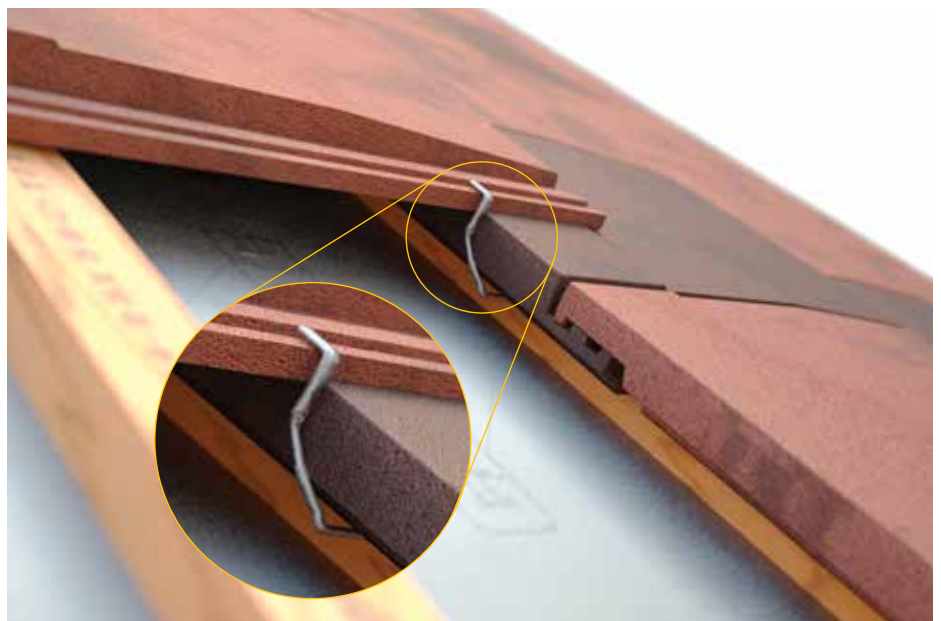
Clip it!

TIL-R Tile Clips are easy to fit single piece clips, which can be used with most roof tiles from leading UK manufacturers, without compromising the performance of the roof.

One of the most prevalent myths in roofing today is the commonly held belief that if you're using a particular brand of tile then you have to use the same manufacturer's tile clips as fixings. If you don't, logic dictates, then you will be breaking the conditions of the warranty.

Well, we're delighted to report that this simply isn't the case. It is true that when you receive a specification detailing the type of tile to be used on a property, you are required to contact the manufacturer's technical department to obtain a fixing specification for that particular roof. This will be based on the tile type, the rafter length, the height of the eave and ridge lines and the pitch, not forgetting the all-important location in the UK. While some specifications will detail the fixing that you must use, many projects will leave the choice of tile clip to your discretion.

TIL-R Tile Clips offer the perfect solution because they are easy to fit single piece clips, which can be used with the majority of roof tiles. Made from galvanised carbon steel, which remains more rigid than stainless steel, they are suitable for all exposures throughout the UK. TIL-R Tile Clips require no nail or clip threading, so are an efficient solution.



Two clips types have been developed, one for use with most flat thin leading-edge interlocking tiles and interlocking mock plain tiles and the other for use with most flat profile standard interlocking tiles and pan tiles. Both have combined fixings to incorporate a batten nail and tile clip, ensuring they can secure most roof tiles.

The clips can be used along with TIL-R Dry Fix Ridge Kits and Pitched Roof Underlay to provide a secure, BS 5534:2014 compliant, roofing solution. The Standard stipulates that all single lap (interlocking) tiles must be mechanically fixed at least once with a nail or clip and all perimeter tiles must be mechanically fixed at least twice. TIL-R Tile Clips represent an effective answer to this.

For added peace of mind, TIL-R Tile Clips come with a 15-year warranty, and form

part of SIG Roofing's single package ONE Warranty, which is designed to give property owners confidence that their investment is protected. Products like TIL-R Tile Clips are a simple way to get a competitive edge, whilst meeting the Standard and at the same time giving your customer peace of mind.

TIL-R



**For more information
please fill in the
reader response card**

ENQUIRY 9

You can count on concrete

MYTH BUSTING

As the most popular man-made material on the planet, concrete just keeps on getting better.

Although we've been using concrete for millennia (the Romans were big fans), for some reason it still seems like it's a relatively modern material. For example, even though commercial concrete roof tiles were first developed in Victorian times they are still seen as the new kid on the block.

Now tried and tested, and the most widely used material for roof tiles, concrete has come a long way in terms of both performance and finish and provides a host of benefits, including:

GREEN CREDENTIALS

Made with the latest technology, modern day concrete roof tiles are now greener than their Victorian ancestors, with less energy used in the manufacturing process. Research has shown that during its entire lifetime, a concrete roof tile makes less than half the greenhouse gases of some other materials.

FINISH

Manufacturers can now provide the traditional look of natural materials but with all the benefits of concrete. From small and larger format and thinner profiles, concrete look a-like products are getting better and better.



COLOURS

Modern manufacturing can even obtain a natural look by carefully blending tiles using selected colours which give a natural appearance when they are mixed.

QUALITY

Not only do concrete tiles look good, they are strong with less wastage and are resistant to freeze thaw.

EASY TO INSTALL

As they have been carefully designed, most concrete tiles are also quick and easy to fit.

At the forefront of concrete tile technology are companies like Russell Roof Tiles. They have been concrete pioneers for over 50 years and manufacture a range of concrete products and accessories for all types of homes and buildings. They were the first to launch a thinner leading-edge concrete roof tile and are as dedicated to concrete roof tiles as ever before - showing how concrete has come of age and should be given due consideration on your next project.


RUSSELL
ROOF TILES

On top of the world

Tiles and Tyvek® help roofer achieve prestigious international award.



The extraordinary, undulating roof at Quintain House, winner of the NFRC's 'UK Roof of the Year' in 2017, has received yet another major accolade.

A globally-recognised award from the International Federation for the Roofing Trade (IFD) was presented to the UK's Rowlands Roofing at the 65th Congress in, Austria, in October 2017.

The awards showcase outstanding achievement by roofing contractors in workmanship and safety. Seventy one buildings from ten countries were submitted, with 17 projects nominated from the United Kingdom, Hungary, Slovakia, South Africa, Russia, China and Austria. Quintain House won in the pitched roof category.

Contractors Rowlands Roofing used a mix of craftsmanship and innovation to create the sweeping curves of the building's 820m² roof, made up of 60,000 hand cut clay tiles.

It demonstrates the highest standards of roofing expertise, craftsmanship and delivery to turn an ambitious architectural vision into striking reality. The stunning curves articulated by the beauty of clay tiles are the crowning glory of a roofing masterpiece. It was created with passion, attention to detail and unrivalled skill.

Master Craftsman Andrew Rowlands said the unique design of the new build in Gloucestershire called for reliable, robust



Quintain House: the IFD award-winning roof protected by Tyvek® Supro

protection. "The roof had to be stunning to look at," he said, "but it also had to adhere to BS 5534:2014 best practice – that is, to be waterproof and secure.

We're very particular about quality and durability for all our roofing projects, and for this challenging installation, the choice was clear: Tyvek® Supro breather membranes, complemented by Tyvek® tapes," he added.

Tyvek® Supro is as unique as the projects it protects. Recent tests show that, thanks to the material's unique 170 micron functional layer, Tyvek® continues to perform for well up to twenty years after installation, whereas multi-layer products often lose the capacity to hold out water, and some fail after less than five years on the job.

From award-winning projects like Quintain House to schools, office blocks and residential homes - all roofs need protection from the elements and deserve quality materials that will stand the test of time.



For more information please fill in the reader response card

ENQUIRY 10

Liquid hunch



How do you know when to choose liquid waterproofing over, say, single ply membrane or hot melt? Here are six scenarios where liquid waterproofing is the best option.

Liquid waterproofing systems are one of the most cost effective ways of making a new or existing roof waterproof. Tough and durable, they can last for 25 years or longer, and can save up to 70% on roof replacement costs in refurbishment projects.*

However, with all the different options out there, how do you know when to choose liquid waterproofing over other methods? Here are six situations where liquid waterproofing is potentially the way to go:

I. REFURBISHMENT

When a roof is coming to the end of its life, liquid waterproofing offers a seamless solution that fully bonds to the substrate. It's ideal for use over existing roofing, including single ply, profiled metal or fibre cement.

2. REPAIR

If an existing roofing material fails, liquid waterproofing's bonding characteristics make it a reliable, cost effective waterproofing overlay.



3. LIMITED ACCESS OR POWER

You only need to bring liquid waterproofing materials to site as required. No need for noisy generators or cabling.

4. COMPLEX ROOFS

Cold applied liquid waterproofing is perfect for complex detailing, such as roof-mounted plant, or on balconies, which are difficult to detail neatly.

5. INVERTED ROOFS

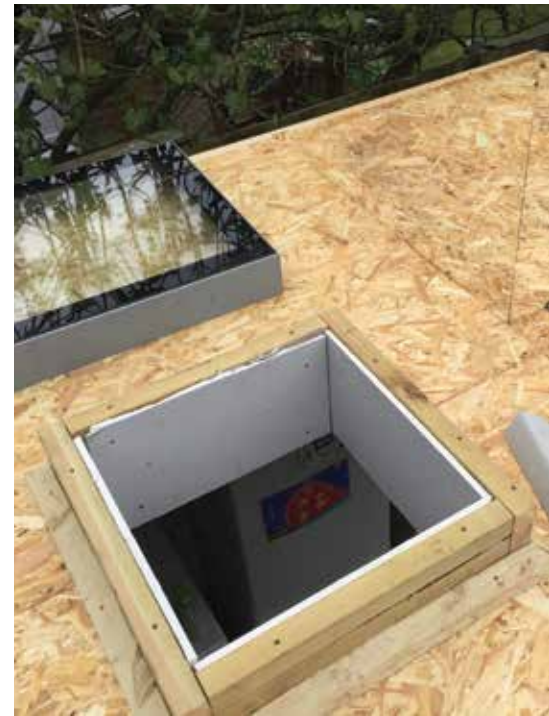
Where the membrane is laid under the insulation and ballast (e.g. roof gardens), AH-25 liquid waterproofing is a great option. Root resistant and FLL approved, it's ideal for green roofs.

6. PITCHED AND FLAT ROOF COMBINATIONS

You can install cold applied liquids above pitches of 15° and below 5°.

When you're looking for a flat roof solution it's always worth considering liquid waterproofing as in many scenarios it is the perfect product to get the results you want.

[*Source: The Liquid Roofing and Waterproofing Association]



Safe2Torch helps to reduce fire risk

The NFRC recently issued new guidelines for safe practice when using gas torches in roofing.



Developed in partnership with NFRC members, Safe2Torch is about minimising fire risk when using gas torches to install Torch On membranes or drying out roof surfaces. To support they have issued a Guidelines booklet and a checklist to complete before work starts, with advice on common issues and 'myths' - some guidelines are more obvious, others less so.

Martin Fisher, Technical Manager at IKO PLC, has been closely involved in the process, and comments: *"These guidelines directly affect at least 50% of all the flat roofs installed in the UK, so it's a serious issue. Having a clear guide to hot works at each stage from specification to completion is a great contribution to safety at work. Torch On is one of the most cost-effective, widely-used procedures, however there will be areas on most roofs where it isn't suitable. In practice, IKO as the supplier will provide a specification which takes into account the areas where it's OK to use Torch On, and suggest alternative products - adhered, self-adhesive membranes or cold applied liquids - where it's not suitable."*



WHAT DO THE GUIDELINES COVER?

The Guidelines include pre-work checks and assessments of the substrate. For example, you should never apply a torch directly to a timber roof deck or timber upstands, including timber fillets - even if the substrate has been treated with a bituminous primer. They also explain how propane cylinders should be stored (e.g. upright and away from site, in a

lockable gas cage when not in use) and the type of hose required (orange, and armoured if used for heating bitumen). The Guidelines also shows pictures of areas where torch-free alternatives should be considered, including; hanging tiles, rooflight kerbs and upstands, and confined spaces. Common types of extinguishers, water, dry-powder, foam, or CO², are covered too and what fires they can be used on.



REGISTER WITH SAFE2TORCH NOW!

All NFRC contractor members who work in flat roofing need to become Safe2Torch Registered, and should be trained on the guidance, either by manufacturers, or the NFRC via webcasts and approved courses. However, if you're not a member of NFRC, you can become a supporter for Safe2Torch. Pledging support means that you have read and understood the guidance and are committed to promoting and implementing the campaign and you will receive a certificate, which can be displayed on site.

To find out more and get a copy of the Safe2Torch guidelines, please fill in the reader response card.

THE SAFE2TORCH CHECKLIST

This is for anyone preparing a specification, detailing areas where Torch On application shouldn't be used. If any boxes are ticked, use a torch-free alternative in these areas:

Decks and insulation:

- Timber / Other combustible materials
- Metal deck (refurbishment) where old materials may accumulate in the troughs
- Insulation - unless specifically designed and tested for use with Torch On membranes

Details:

- Expansion joints with voids and/or combustible fillers
- Fibreboard or timber fillets
- Detail under all abutments to roof tiles, slates and thatch
- Detail under cladding/rendering
- All abutments with open cavities (open perpend)
- All timber substrates

- Change in level details with fixed timber or plastic fascias and/or all soffits, gutters or restricted spaces
- Window sills and frames, door sills, louvered vents, air ducts, intakes and outtakes
- Junctions to existing waterproofing with flammable insulation/deck materials
- Vulnerable plastic curbs, domes, pipes and the like
- Working when in close proximity to potentially flammable coatings

Existing weathering components with concealed flammable materials, these include:

- Timber, DPC or sarking membranes beneath fixed metal capping systems
- Existing kitchen extraction plant coated in oils or fats
- Flammable wrapping to trunking/ducting
- Timber cladding
- Existing metal or plastic copings/cappings

Safe2Torch



For more information please fill in the reader response card

ENQUIRY II

Fuss-free flat roofing!



Top tips to help you get the most out of your flat roof

BS 6229:2003 describes flat roofs as 'those having a pitch not greater than 10 degrees'. As well as specifying the minimum pitch for flat roofs, the Standard recommends the minimum for designed and achieved falls for most flat roofs as 1:40 and 1:80 respectively (unless the materials used for the flat roof are designed for zero falls).

A roof which does not comply with these minimum industry Standards is likely to attract issues, including:

- Ponding water
- Moss
- Fungal and algae growth
- Increased maintenance costs
- Significantly higher risk of water entry in the event of damaged roof coverings



A roof that doesn't follow the Standard can also negate any third-party insurance cover and/or a manufacturer's guarantee. Clearly these are all things to be avoided, so as well as complying with the Standard here are a few top tips to ensure fuss-free flat roof installation and maintenance.

TIP 1: MAINTAIN MINIMUM UPSTAND HEIGHTS

Continuity of waterproof coverings should be maintained for a vertical height of 150mm above the finished roof level at all abutments, door openings and parapets.

Achieving this minimum upstand height is very important, but so is how the top of this upstand interfaces with flashings, cappings or the other building elements. The installation also needs to be sequenced properly, especially at door thresholds where there is a very small gap to seal between that and the upstand.

Also remember that the 150mm should be measured from roof finishes, NOT the waterproofing layer – so with green roofs or ballasted ones, the measurement should be taken from the green roof element or ballast, not the waterproofing itself!

TIP 2: ENSURE CORRECT COVERAGE RATE

When using a liquid applied system it's essential to monitor consumption to make sure you achieve the correct coverage rate. You can do this by marking out the roof in grids to the size of the coverage rate of a tin of liquid. For example, 15 litres of FIX-R Liquid Waterproofing at 1.5ltrs m² coverage will cover 10m². A grid size of 10m² will ensure you are monitoring consumption and creating an even thickness as you progress across the roof. This helps you avoid over or indeed under applying!





TIP 3: ASSUME A MINIMUM WASTAGE

When you estimate how much you need to cover your roof always factor in a minimum wastage of at least 10%. For example, if there's a sudden downpour of rain or hail you may need to re-coat a liquid system if it's still wet or cutting rolls of roofing felt and singleply may leave you with lengths of off-cuts you can't use elsewhere. Allowing for a minimum wastage means you're prepared for these eventualities.

It's also a good idea to check the dimensions of the roof to confirm it's the same size as stated on the roof plan, particularly with new builds. You might not have received that latest drawing from the main contractor or architect and the design may have changed or the drawing provided is a poor copy and is not to scale. Whatever the case, checking before you start can avoid any issues.

TIP 4: NIGHT JOINTS

Trapped moisture in new constructions can lead to damage and also constant call backs where there's no actual water ingress! Night joints should be formed at the end of a day's installation when all the insulation has been adequately covered to avoid trapping in any rain that falls overnight or the following day.

TIP 5: CHECK YOUR LAPS AS YOU GO

The installer laying the membrane is responsible for checking laps, fixing centres and monitoring adhesive consumption, etc. It's not a job for the site inspection.



TIP 6: AND FINALLY...

Roofs need a bit of TLC, too. You can significantly extend the service life of a roofing system with some periodic maintenance. All flat roofs should have regular inspections both internally and externally every spring and autumn as a minimum, so make sure the end user knows their responsibility after the roofing is complete.



**For more information
please fill in the
reader response card**

ENQUIRY 12

Rubber soul

EPDM can overlay virtually any flat roof, making it ideal for use in refurbishment and improvement projects - no wonder that this rubber membrane is such a popular choice for both domestic and commercial flat roofing.

The development of products such as EPDM over the last few decades has revolutionised how we approach flat roofing. Today you can confidently expect a flat roof you install to be low-maintenance with a trouble-free life expectancy of anywhere from 15 years to 50 years plus.

Provided the roof structure itself is sound, you can use EPDM practically anywhere, even on boats, which gives some indication of its waterproofing credentials! Its flame-free application also makes it perfect for adding extensions to thatched properties.

Here are five simple steps to help you install EPDM on flat roofs:

1. Make sure the roof deck is 100% clean of dust, chippings, sharp objects or raised fixings - these can show under the membrane and stop the glue bonding properly. Also, ensure all decking is dry and adequately fastened.
2. Unfold the EPDM membrane and lay it into position. Allow the membrane to hang over the roof edge by a minimum of 75mm (3"), and turn up walls 200mm (8") minimum. Leave to relax for at least 30 minutes to help remove creases.
3. Apply the manufacturer's high strength, solvent based bonding adhesive specifically designed for EPDM and approved by the EPDM supplier (or an approved WBA deck adhesive). Use an adhesive you can roller on to the substrate or, in the case of the solvent adhesive, to both the substrate and the underside of the sheet. Be sure that the membrane is in position, to size, and smooth out any creases before applying the adhesive. Also, allow the solvent based adhesive to flash off, otherwise it can blister under the membrane.
4. Roll the EPDM back onto the deck where adhesive has been applied. Work slowly and evenly to minimise wrinkles. Incorrectly attaching the EPDM to corners, walls, around drains, pipes and other areas will allow water to get in. Seal corners and penetrations with EPDM primer and pressure sensitive mouldable tapes to seal any openings.

5. Ensure roof perimeter trims are of a high-quality finish to compliment the durable EPDM roof. The trims can be plastic coated metal or PVCu.

Remember, it pays to source high quality, proven products such as FIX-R's range of EPDM and accessories. FIX-R EPDM allows faster installation, meaning reduced labour costs and giving you a win-win solution to flat roofing.

FIX-R

**For more information
please fill in the
reader response card**

ENQUIRY 13



With my reputation?!

For some, the reputation for being tricky to work with is well earned...Whitney Houston springs to mind...for others not so much!

MYTH
BUSTING

In the case of roofing, aluminium has sometimes had a bad rap for not being the easiest material to work with. This is a myth that needs to be busted, as pioneering use of new materials and manufacturing techniques means it's no longer based on fact.

When you recommend a rainwater solution to a customer, it's important to think about its installed lifecycle costs - including maintenance. This is where aluminium systems showcase their added value, as once installed they need minimal attention. Marine grade aluminium is corrosion resistant, and has a life expectancy of 50 years, so you can fit and forget with peace of mind that there will be a significantly reduced risk of site call-backs.

Contractors can also take an identical approach to installing aluminium as they would other materials. The same applies to Marley Alutec, who are employing the latest aluminium technology to provide a user-friendly aluminium roofline range:

- Family of gutters, unions, outlets and angles using rubber seals and modern fascia brackets are as easy to install as any other material



- Rigidity and composition of the panels in the fascia and soffit system, especially with the introduction earlier this year of the new h-section joint, ensures fast cutting using everyday carpentry tools. This leads to a hassle free aluminium fascia installation direct to rafter ends
- A wide range of luscious RAL colours are available. Marley Alutec use architectural grade polyester powder coating so you can be sure the property will have long lasting kerb appeal with excellent colour and gloss retention, even with prolonged outdoor exposure. You can also use the colours to tie in with the buildings' windows for excellent external aesthetics

In addition, aluminium is lightweight and can be produced to exactly replicate traditional styled gutters found on listed buildings, made from heavier metals. Aaron Coker, who recently installed a Marley Alutec system on a Grade II manor house,

commented: "I have been working with Marley Alutec and its products for about five years and like most projects where I've used their products, Moreteyne Manor was an easy installation...I was able to install the entire system in two days by myself."

I'm sure you'll agree that the benefits of hassle free installation, wide choice of RAL colours, latest aluminium technology and 50 years life expectancy means a great reputation for your jobs and peace of mind for your customers.

ALUTEC
ALUMINIUM RAINWATER SYSTEMS

**For more information
please fill in the
reader response card**

ENQUIRY 14

Seamlessly bespoke

Alumasc tell us how advances in design and manufacturing now make it possible for individual solutions to be made within tight timescales - whilst still being cost effective.

MYTH
BUSTING

The word bespoke conjures up a picture of made to measure high end products and social prestige. Whereas in fact, bespoke simply refers to low-volume production, where often a project specific solution is developed to overcome a particular design challenge or create a unique finished appearance.

Modern technology means that bespoke solutions are more accessible than they have ever been and they still give you the opportunity to achieve a WOW factor. A developer designing an exclusive gated community, or a self-builder planning a dream home will naturally aspire to something different for the build - with contractors often being responsible for identifying and delivering the solution. Working with experienced manufacturers that are set up to offer guidance and deliver the specific requirements of the project easily, quickly and efficiently, whatever they may be, will help make that a reality.

Using bespoke products in close collaboration between architect, developer and contractor certainly helped in the case of four new-build architect-designed luxury homes in Jersey. The architect, Scott Smith of Godel Architects, wanted a bespoke fascia and soffit system that was practical, looked good and was also competitively priced. Scott specified Alumasc Skyline and worked closely with the contractor to achieve the perfect look.

Aluminium fascia, soffits and copings can completely transform the look of a building. The first part of the project involved roof clad overhangs and designing a complex fascia and coping system. When the first phase was complete the developer, Barry Noel, asked for Alumasc Skyline products to be used for the balconies too, but manufactured to much larger dimensions. Working with the architect and contractor, Alumasc engineered a bespoke system that achieved all the project objectives, in a lightweight modular form that was easy to handle and fit, despite the larger size specification.

The idea of bespoke meaning added hassle and complexity is a myth. Custom-made solutions are now a realistic and cost effective option to enhance your project and that can actually save you time in the long run. The result is that you can easily deliver the aspirational look your customers desire, all within a practical time frame and cost.



Alumasc Skyline fascia, soffits and copings fit with all styles of architecture and work seamlessly with Alumasc Rainwater - a range of high performance metal gutters and downpipes. Alumasc's products are 100% recyclable, made from high quality BBA approved powder-coated aluminium to any RAL or BSS colour, and come with a 25 year life expectancy.



For more information please fill in the reader response card

ENQUIRY 15

Getting off to a good start

MYTH
BUSTING

There are many key factors to consider at the outset to ensure your project begins successfully. Here we look at three things you can do to start your industrial project on the front foot.

ENSURE THE PROJECT IS AIR-TIGHT

It's very important to make sure structural steelwork is installed to the correct tolerances as variations in the steelwork can cause sealing issues with other building materials. An example would be if the cladding is not sealed correctly. This can allow uncontrolled air exchange to occur from the outside, increasing the amount of heat loss through the building structure. This could mean the finished building doesn't meet current Building Regulations and remedial work may be needed to fix the problem. Of course, air leakage and heat loss increase the energy consumption of the building and make it more expensive to run in the long term.

CONTROL CONDENSATION

Controlling the build-up of moisture within construction materials is becoming more important as we seal up buildings in a bid for more efficient structures. A build-up of moisture within a cavity or a building material can seriously damage the efficiency of the material and can even lead to damage to the supporting structure.

The main ways to deal with the issue of condensation are good robust detailing, good workmanship and making sure every seal and sealant is installed correctly. For complex structures, you might need to install a separate vapour control layer to reduce the risk of condensation.



TALK TO YOUR SUPPLIERS

Building product manufacturers can be a rich source of knowledge to help guide you through a project, particularly at the start. After all, they've been providing materials to the construction industry for years so have a wealth of experience to draw on, as well as insight into the potential of their products and the advantages they can bring to your project.

In addition a supplier of a single component may actually be able to supply a complete system or envelope. Giving you the benefit that all of the components have been designed to seamlessly work together and as the contractor you only have to deal with a single supplier.

Contractors often have many factors to consider during the build process and while you can retrofix many issues once the build is complete, taking a few simple steps at the beginning will help reduce the chance of problems arising in the first place.



Steadmans

Quality since 1911

Industrial myth busting



Lee Hall, Commercial Manager of SIG Industrial Roofing, answers some of the most frequently asked questions his team tackle every day.

As you can imagine, the guys at the SIG Industrial Roofing Centre get asked a wide range of questions on everything from what certain products do, to what to fit. There are, however, a number of questions that crop up on a regular basis. Here are a few of the most common.

I NEED A STANDARD SIZE

Unfortunately, there isn't one! Although this is a regular request for all products within the industrial roofing range, from flashings to composite panels and fibre cement, the reality is there isn't a standard size; everything is made to order so that it fits your projects as it needs to.

The only product that is made in set lengths is fibre cement – with both profile 6 and profile 3 having a range of sizes available that do not need to be made to order. All other products are made to order with single skin profiled sheet available in lengths up to 10m, composite panels available in lengths up to 13m, roof lights (fairs and single skin) available in lengths up to 8m and flashings and trims available in lengths up to 8m.



I NEED A STANDARD PROFILE

But alas there isn't one! There are over 1,000 profiles that have been previously manufactured or are currently in production. To identify the right profile, the best place to start is to ask if the contractor is matching into an existing profile on the roof or wall. If the answer is yes, then we need to ensure we match the profile so the project remains water-tight. If the answer is no, we can work with the contractor to agree the best profile.

A number of metal profiles have been discontinued and there are now only a

handful of profiles currently manufactured - however you can still get hand folded profiles to suit some of these discontinued profiles (to a maximum length of 8m). If it is a replacement roof light that was metal and no longer available then 99% of profiles can still be made by the manufacturers in GRP.

Help is always at hand, if you're unsure - profile identification sheets are used by the majority of suppliers to work with contractors to help them to simply identify the right profile solution.



HOW DO I FIT MY SHEETS?

The answer to this question varies depending on the type of product. All sheets use a tech screw or self-drilling fixing designed to self-drill through your sheet and fit directly into the purlin. The fixings can come as plain head (hex head) and you can put a colour cap on separately or with colour heads already moulded onto them (bi-hex). Both types of fixings need to be fitted with an adaptor to suit your screw gun. When speaking to your supplier you'll need to know what your purlin is made from and depending on the material the fixings drill point will vary. The three options available are timber, light section (up to 2.5mm thick steel) and heavy section (3mm and above).

CAN YOU DELIVER DIRECT TO SITE AND WHAT TIME CAN YOU DO THAT?

A general requirement for industrial deliveries is that there is access for an articulated truck and off loading facilities (i.e. a fork lift truck) to accept delivery. Some customers aren't aware that manufacturers can offer a flexible service when delivering materials to site, with several manufacturers offering rigid vehicles or MOFFETT assistance off load (there's normally an extra cost for these).

There are many myths and rumours swirling around the industrial roofing sector. Hopefully, that answers some of the most common questions the guys at SIG Industrial Roofing Centre have to face!



Call the SIG Industrial Roofing Centre on 0870 264 7766 or email industrial@sigroofing.co.uk and their expert team will be happy to answer your questions, as well as give you advice and support for your next industrial roofing job.

SIG INDUSTRIAL
ROOFING

Ticking all the boxes

To meet the energy efficiency, fire performance and ease of installation requirements of today's projects, a growing number of specifiers are turning to insulated panel systems.



Metal-faced insulated panels are single, factory engineered components, with a rigid thermosetting insulation that is auto-adhesively bonded to metal facings - providing a strong durable unit. Sometimes called sandwich panels, they are typically fixed directly to the structural frame to provide insulation and weather protection, speed up installation and enable contractors to create highly energy efficient building envelopes with proven fire resistance.

Building Regulations set out minimum requirements for the thermal and fire performance of building envelopes. However, simply complying with the requirements will not always deliver the best results. Instead, it is important to consider how they will perform over the lifespan of the building. One way to get a clearer idea of a product's performance and characteristics is to look at third party assessment processes.

Large-scale tests, such as those used within Loss Prevention Standard LPS 1181 from the BRE, and/or Factory Mutual FM 4880/4881/4882/447, provide a much more accurate picture than smaller scale tests used to demonstrate regulatory compliance. Insulated panels with rigid



PIR cores can meet the demanding requirements of these insurance industry tests. The question is, do they truly reflect what happens in an actual building fire?

Industry body Engineered Panels in Construction (EPIC) published findings of independent studies into the fire performance of insurance industry approved PIR insulated panels within real-fire situations, and documented the findings of fire experts within a guidance document.

In all the cases they examined, they found the following was true:

- The PIR core panels performed as expected from the large-scale test results, with no evidence of contribution to fire spread
- None of the fires were propagated within the PIR core
- No evidence was found to indicate that PIR panels increased the risk of fire spread

With concerns over budgets and the energy and fire performance of our buildings, contractors need proven solutions they can rely on, to perform as expected. This is where insulated panel systems come into their own, as they offer a well-established track record of delivering very high levels of energy efficiency without compromising on fire performance. All backed by rigorous testing. A product you can count on, which gives everyone peace of mind.



**For more information
please fill in the
reader response card**

ENQUIRY 16

Sound investments

The nature of metal deck profiled roofs has long presented a challenge when it comes to controlling reverberation and creating environments which are fit for purpose. However, it presents an opportunity for the specialist contractor to add value to a project, by offering practical acoustic roofing solutions.

MYTH
BUSTING

To reduce sound transmission in a metal roof, the general principle is to add mass and introduce insulation. Acoustic consultants will often include several variable layers within an acoustic specification, which has the potential to result in a high build-up.

Where the underside of the metal roof decks is perforated, AIM Acoustic Trough Infills are typically installed within the profile to provide direct acoustic insulation. The application of the trough infills essentially reduces reverberation of sound within the roof zone and improves sound quality. One such example of this was the O2 Arena in London where AIM precision manufactured the profiles to an exact design and to bespoke dimensions.

Where the metal deck is not perforated, AIM Acoustic Trough Infills still offer a robust solution when used in combination with Euroform's Versapanel®. To help keep the roof profile to a minimum, Versapanel® aids acoustic performance by adding a mass layer. As Versapanel® is available in a range of thicknesses which provide sound reduction from 30dB to 38dB, the lowest thickness can be specified to achieve the required performance. Due to its tolerance of any weather conditions, using Versapanel® means work can carry on uninterrupted.



While you can use Versapanel® independently with a roof build-up to reduce sound transference, as was the case at Dublin's Terminal 2 Airport, in higher performance applications creating an AIM/Euroform system offers several benefits.

For example, AIM Acoustic Trough Infills are constructed of high density stone wool which delivers excellent sound insulation. When combined with Versapanel®, they enable effective sound control while keeping the overall build-up to a minimum.

That's a practical insight on the types of products you can use in combination to create a robust acoustic roofing solution. For contractors looking to add value, acoustic know-how is a skill worth adding to your list.



**For more information
please fill in the
reader response card**

ENQUIRY 17

INDUSTRY VIEW

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PITCHED ROOFING

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FLAT ROOFING

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INDUSTRIAL ROOFING

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Myth Busting



WIN a two-step Ladder

In this issue of INSIGHT we've highlighted some of the common misconceptions in the roofing industry and you can find some of these terms in our word search:

- ACOUSTIC
- BESPOKE
- BEST PRACTICE
- BLUE ROOF
- BRITISH STANDARDS
- DRY FIX
- GUIDANCE
- KNOWLEDGE
- PROVEN
- QUALITY
- SAFE TORCH
- SUPPORT
- THERMAL
- TRAINING

Simply complete the word search and find the one word which 'debunks an industry myth' **NOT** listed above, but **IS** in the word search.

Enter the missing word on the reader response card and post it back to us. We're sure you'll find this puzzle a 'breeze'!

Good luck!

Closing date to receive entries is 9th April 2018.

F	S	C	D	J	X	W	V	Q	H	I	B	G	B	D
H	C	R	O	T	E	F	A	S	W	E	F	U	R	A
K	N	X	S	O	K	M	O	O	S	L	U	I	I	O
P	R	J	E	D	G	F	D	T	Z	O	N	D	T	L
S	A	Z	C	P	T	Z	P	C	G	I	T	A	I	D
D	W	H	U	S	P	R	E	X	B	G	F	N	S	N
W	Y	E	X	E	A	P	I	H	P	P	X	C	H	I
N	R	E	D	C	K	F	F	J	Z	E	R	E	S	W
J	G	R	T	H	Y	O	D	I	O	Q	M	L	T	J
Q	E	I	X	R	O	A	P	G	N	C	O	A	A	I
L	C	V	D	R	Y	L	C	S	K	N	O	M	N	Y
E	M	X	E	Z	H	O	G	O	E	B	T	R	D	H
Y	Q	U	I	B	V	Y	V	K	U	B	D	E	A	B
E	L	P	R	O	V	E	N	Q	W	S	S	H	R	O
B	G	T	R	A	I	N	I	N	G	U	T	T	D	S
B	O	D	P	H	O	Q	B	D	P	T	K	I	S	Z
X	Z	D	E	R	P	B	W	P	Z	I	A	Q	C	Z
T	O	S	T	L	N	I	O	Y	T	I	L	A	U	Q
M	L	Z	T	B	W	R	O	I	V	Q	Q	U	M	U
B	D	Y	D	A	T	O	M	M	F	A	F	I	P	G
L	Y	J	R	I	H	R	N	V	W	V	R	I	C	E
Q	K	D	O	J	T	T	C	K	V	M	G	N	B	S

Congratulations to Dean Engall from DK Engall for winning the last issue's two-step ladder competition!

Terms & Conditions

Entry to the competition is restricted to one entry per person. Multiple entries will be disqualified. Competitions are open to UK residents only unless otherwise stated. Prizes can only be sent to a valid UK address unless otherwise stated. Winners will be chosen at random from all valid entries. Winners will be contacted via email. The competition will run from 26th February to 9th April 2018. INSIGHT magazine from SIG Roofing is compliant with the data protection act. Our policy is such that we will not pass on your details to any third party without consent.

WHERE CAN YOU FIND AN INSIGHT APPROVED STOCKIST?

SCOTLAND

SIG ROOFING

Aberdeen	AB16 5UU	01224 692000
Ayr	KA8 8BL	01292 262885
Broxburn	EH52 5NN	01506 857613
Dundee	DD2 3QQ	01382 833011
Edinburgh	EH6 7LF	01315 542554
Glasgow	G31 4DX	01415 565200
Glasgow	G71 6LL	01698 817428
Inverness	IV1 1SY	01463 250318
Kirkcaldy	KY1 2YX	01592 654913
Linwood	PA3 3BQ	01505 321122
Melrose	TD6 ORS	01835 823640

NORTH WEST

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Blackpool	FY3 7UN	01253 398376
Bolton	BL3 2NH	01204 523336
Leyland	PR26 7QL	01772 453939
Liverpool	L9 7ET	0151 5212100
Manchester	M11 1BR	01612 307712
Manchester	M34 5LR	0161 3203456
St Helens	WA9 3AP	01744 611471
Wigan	WN3 4BT	01942 615030

CHESHIRE ROOFING SUPPLIES

Crewe	CW2 8UY	01270 251 000
Warrington	WA4 4EZ	01928 796 100

TYNE AND TEES

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Gateshead	NE8 3AD	01914 779474
Killingworth	NE12 6QQ	0191 2686627
Middlesbrough	TS2 1DF	01642 242753
Stockton	TS18 2PH	01642 677772

YORKSHIRE

SIG ROOFING

Bradford	BD3 9HB	01274 392433
Grimsby	DN31 2SG	01472 245667
Huddersfield	HD3 4JW	01484 653373
Hull	HU4 6PA	01482 574577
Leeds	LS12 6AB	01132 631263
Leeds	LS9 0PF	0113 2351441
Rotherham	S60 1DA	01709 835500
Scunthorpe	DN16 1DQ	01724 854444
Sheffield	S9 1TL	0114 2434188
York	YO30 4UU	01904 476319

ROOFCARE NORTHERN

Scarborough	YO12 4HA	01723 375 851
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MIDLANDS

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Birmingham	B11 2FE	01217 081515
Birmingham	B19 1ED	01215 239143
Birmingham	B24 8LD	01213 273071
Coventry	CV6 6FG	02476 688754
Derby	DE24 8HL	01332 349155
Dudley	DY2 0RL	01384 472420
Leicester	LE18 4TA	01162 785262
Newark	NG24 2EQ	01636 611880
Nottingham	NG7 2NN	01159 851400

MIDLANDS continued

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Nottingham	NG8 1PQ	01159 285999
Oswestry	SY10 8NN	01691 654551
Stoke	ST4 2NL	01782 280567
Telford	TF1 5ST	01952 641161

WEST

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Bath	BA1 3EN	01225 483828
Bristol	BS2 0UZ	01179 710085
Bristol	BS5 9RD	01179 412412
Bristol	BS3 2TN	01179 663072
Gloucester	GL4 3SJ	01452 521 347
Hereford	HR2 6JT	01432 273084
Oxford	OX2 0ES	01865 790303
Reading	RG30 4BJ	01189 455454
Swindon	SN2 8XA	01793 613339

WALES

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Cardiff	CF24 5HB	02920 483939
Porth	CF39 9SJ	01443 681004
Swansea	SA5 7LF	01792 790272

ANGLIA

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Bedford	MK41 9QG	01234 325283
Cambridge	CB22 7QP	01223 872260
Colchester	CO2 8JX	01206 877460
Great Yarmouth	NR31 0LY	01493 659991
High Wycombe	HP12 3RJ	01494 450079
Ipswich	IP1 5LU	01473 749621
Kings Langley	WD4 8JU	01923 269983
Kings Lynn	PE34 3AJ	01553 764202
Luton	LU1 3XL	01582 724837
Northampton	NN5 5JF	01604 765684
Norwich	NR3 3ST	01603 487860
Peterborough	PE1 5YB	01733 345004
Southend	SS9 5PR	01702 425213
St Ives	PE27 3YJ	01480 467776
Waltham Cross	EN8 7DZ	01992 624938

UNDERCOVER ROOFING SUPPLIES

Colchester	CO2 9JT	01206 840 230
Southend	SS2 5QW	01702 613 181

LONDON

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Cheam	SM3 9AG	020 8337 9455
Croydon	CR0 2BD	020 8686 6911
Croydon	CR0 4YZ	020 8689 0481
Kentish Town	NW5 3EW	020 7485 5550
Kentish Town	NW5 2DS	020 7485 1791
Park Royal	NW10 7UL	020 8507 4380
Romford	RM7 0HL	01708 754022
Romford	RM3 8TS	01708 377666
Slough	SL1 4BG	01753 570526
South Harrow	HA2 8AX	0208 426 8838
Stratford	E15 2RW	020 8536 5400
Tottenham	N17 8HJ	020 8808 6816

LONDON continued

UNITED TRADING COMPANY

Chingford	E4 7HZ	020 8559 4334
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UNDERCOVER ROOFING SUPPLIES

Rayleigh	SS6 7XF	01268 798 999
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SOUTH EAST

SIG ROOFING

Brighton	BN41 1WF	01273 430444
Finchampstead	RG40 4RB	01189 733788
Folkestone	CT19 5EY	01303 226888
Gravesend	DA12 2PS	01474 532999
Hastings	TN38 9ST	01424 853099
Horsham	RH12 2NW	01403 270640
Hove	BN3 7ES	01273 328640
Leatherhead	KT22 7LF	01372 361600
Lewes	BN7 2BQ	01273 488888
Maidstone	ME15 9NL	01622 843399
Milford	GU8 5BB	01483 425828
Ramsgate	CT11 7QE	01843 592772
Sidcup	DA14 6QF	0208 302 5451
Sittingbourne	ME9 7NU	01795 843967
Tunbridge Wells	TN2 3DY	01892 515599
Worthing	BN14 8NW	01903 201013

GREENJACKETS

Hanwell	W7 2QD	020 8571 6555
Weybridge	KT15 2SD	01932 850500
Woking	GU21 3BA	01483 215100

SOUTH COAST

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Bishops Waltham	S032 1BH	01489 896544
Bournemouth	BH12 4BJ	01202 731867
Eastbourne	BN23 6QN	01323 500458
Poole	BH15 4BN	01202 682491
Portsmouth	PO3 5AY	02392 690214
Portsmouth	PO3 5NX	02392 671521
Southampton	SO15 0LG	02380 365555
Waterlooville	PO7 6QX	02392 258344

SOUTH WEST

SIG ROOFING

Exeter	EX2 8PY	01392 250323
Newquay	TR7 2SX	01637 852660
Plymouth	PL1 4LL	01752 509538
Taunton	TA1 5LY	01823 323888
Torquay	TQ2 7BD	01803 613212

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