INSIGHT

SERVING THE ROOFING INDUSTRY

FROM SIG ROOFING

MEASURING STANDARDS FOR BETTER RESULTS

CONTENTS

Higher standards, better results

In this issue of INSIGHT we look at how contractors are affected and can benefit from industry standards and legislation.

Standards and legislation affect every aspect of our daily lives. In fact it's pretty difficult to imagine an area of the modern world that isn't governed by standards in one way or another. And, while this does mean we have to keep up with how the rules change over time, as an industry and individual contractors we can benefit from the many good things that having standards brings.

Standards are useful for a number of reasons. For a start, they ensure the things we use on a daily basis all interact seamlessly, from aerospace and electronics to green technology, transport and construction. Without them, the world would be full of things that didn't fit together, work or last for any length of time. Standards make products function better, deliver our requirements as the person installing or using them and protect consumers. In a nutshell, they fuel the development and implementation of technologies that influence and transform the way we live, work and communicate. And, roofing, of course, is no exception. Our industry, by its very nature, has an ever evolving suite of standards to ensure we're all on a level playing field.

In this issue we look at a number of ways Standards and legislation are affecting the quality of workmanship, materials and products at our disposal. We also cover how organisations such as the NFRC are putting Health and Safety at the heart of everything they do (page 8), to airtight standards for increased energy efficiency (page 17). Plus, there's information on how to make sure you're complying with Part L2 of Building Regulations (page 36), when to use air open underlays (page 16), and fixings on fibre cement slates to help us comply with the revised BS 5534:2014 (page 18). And, much more besides.

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

FREE T-shirt!

Sign up for the quarterly INSIGHT magazine to receive your FREE T-shirt!

See page 23 for details.

As this issue of INSIGHT shows, standards are there for a reason. For those that follow them the benefits are tangible – more satisfied customers, more efficient ways of working and quite often lower costs. Overall, they'll help you improve the quality of your service, meet your deadlines and keep your projects on track. All of which is very good for business.

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:

COMPETITION WINNER

Congratulations to our reader Robert Murt of The Flat Roofing Company who is our latest competition winner!

Robert entered our INSIGHT issue 28 word search competition to win a two-step ladder!

We asked Robert why he reads INSIGHT and he told us: *"I've been reading the INSIGHT magazine for years and find it really helpful with what's new on the market, as well as keeping us updated with any changes that's of use to our company. The magazine is very useful and long may it continue! I've never won anything in my life...think I'll have to try the lottery now!!"*

Have your chance to win a valet pack on page 39.

Our online home

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

Congratulations!

...to this year's winners of the National Federation of Roofing Contractors (NFRC) prestigious UK Roofing Awards.

The awards recognise the incredible talent that makes the UK roofing industry such a success. It is a celebration of our expertise and recognises and rewards those who have produced truly outstanding work. Taking part is a badge of quality that those involved can wear with honour throughout their future career. The winners were revealed at a memorable ceremony that took place on Friday 19th May 2017 at Park Plaza Westminster Bridge, London.

The winners across the eleven competition categories are as follows:

Roofing

Skygarden Ltd working with Topek Ltd
Project: The Macallan Distillery

Metal Roofing

Roles Broderick Roofing Ltd
Project: Exeter College, University of Oxford

Roofing - Sponsored by Klober

Emerton Roofing (Western) Ltd
Project: The Boat House

Roofing - Sponsored by Chandlers Roofing Supplies

K&M Leadwork Ltd
Project: Goring Clock Tower

Applied Roofing and Waterproofing

Mitie Tilley Roofing Ltd
Project: North Terminal, Gatwick Airport

Asphalt / Hot Melt - Sponsored by EagleView

Prater Ltd working with Radmat Building Products Ltd
Project: Fitzroy Place

Bitumen Membranes

M&J Group
Project: Fleet Bank House

Slating

Contour Roofing (Essex) Ltd
Project: St Joseph's College

Tiling

Rowlands Roofing Ltd working with Marley Eternit
Project: Quintain House

Cladding - Sponsored by ECIC

Lakesmere
Project: Greenwich Energy Centre (Optik Cloak)

Ply Roofing

Carlisle Construction Materials Ltd working with Topek Ltd
Project: The Macallan Distillery

Roof of the Year - Sponsored by SIG Roofing

This award was presented to Rowlands Roofing Ltd in association with Marley Eternit for work on Quintain House. This award was chosen by the UK Roofing Awards judges from this year's winners.

In addition to the category winners awards were also presented to the following companies for their exceptional standards of workmanship and technical excellence:

CITB Exceptional Contribution to Training - this award went to Beverley Sexton of Jackson Jackson & Sons Ltd.

Young Leadworker of the Year (Lead Sheet Association) - this award was scooped by Jay Stubbs, a self-employed leadworker trading as LDN Leadwork Ltd.

Murdoch Sponsor's Award (Lead Contractors Association) - Celtic Leadwork won this award for its work on a Primary School in Notting Hill, London.

Murdoch Award (Lead Contractors Association) - Conservation Leadwork Ltd won this award for its work on Culham Court Chapel.

Commenting on the competition winners, James Talman, Chief Executive at NFRC said: *"Congratulations to all our winners. The Awards is the highlight of the roofing calendar and this year was no exception. The judging panel was blown away with the quality of entries and every winner should be proud of their achievement."*

James added: *"We would like to thank everyone that entered the competition and all those who have supported the event, including the headline sponsor, SIG Roofing, for their continued support, and of course all our sponsors."*

Details of all winners can be found at www.nfrc.co.uk/uk-roofing-awards/2017-winners

THE UK ROOFING AWARDS 2017
HOSTED BY NFRC

NFRC
THE NATIONAL FEDERATION OF ROOFING CONTRACTORS LIMITED

The trade show that's a must for you in 2017

The RCI Show returns to the Ricoh Arena in Coventry this November and preparations for the event are in full swing.

For contractors, attending the show is a great opportunity to move your business forward by seeing and learning first-hand about new products and services coming on to the market. You'll find a unique mix of expert speakers, lively debates and product demonstrations - as well as the chance to talk to exhibitors about what's happening in the industry.

EVERYONE'S GOING!

As the UK's only dedicated roofing, cladding and insulation exhibition, this has become the annual national event for our industry. It is the perfect platform for you to keep up-to-date with what's current, see how you can up-skill, and enhance your credibility with customers. It's benefits such as these, that ultimately, will help you get more jobs and grow your business. Thousands of people who've been to previous shows have said they want to come back. One such returnee, Jason Wright of J Wright Roofing, who features in this year's RCI visitor campaign, was so impressed with last year's show that he's planning to bring his whole team again in November.

And, with over 130 exhibitors showcasing the best of British roofing, who can blame him? At the show you can source thousands of products, learn pivotal information in the two bespoke seminar theatres, and meet manufacturers for all the help and advice you need. It all takes place over two days, all under one roof, and we'll be bringing you the latest updates on new exhibitors, show attractions and the speaker and debate programme as the show gets closer. In the next issue of INSIGHT (due out in October) we'll be detailing everything you need to know about the show in a 4-page RCI Show pull-out, covering:

- Demos - where to see the latest products in action
- Seminars - who's speaking where and about what
- Arrival - what to do when you get there

Register for your FREE tickets at www.rcishow.co.uk and stick it in the diary!

And don't forget to complete the enclosed reader response card, if you know someone who'll want to subscribe to INSIGHT and learn more about the RCI Show and our industry going forward.

rci 2017
THE NATIONAL ROOFING CLADDING & INSULATION SHOW

For more information please fill in the reader response card

ENQUIRY 1

Down to a T

The introduction of T-levels gives 16-19 year olds a new path into construction and helps companies bridge the skills gap.

The shortage of housing stock in the UK means it's easy to see why the Government recently outlined the need for around one million new homes by 2020. This provides a huge opportunity for the industry as there is a mismatch between what is available and what people want to live in. To meet this ongoing challenge it's essential we have a workforce that are trained and ready to roof! That's where T-levels come in. These new technical qualifications will give young people a new technical route into the construction industry and could help you expand your team.

WHAT ARE T-LEVELS?

The plan is to create a vocational classroom-based route that is a technical alternative to A-levels, with the name 'T-Levels' referring to the government's planned overhaul of technical education. Under the proposals construction is just one of 15 key sectors where you need substantial technical training to get a job and in which new pathways will be developed between now and 2022. The aim is to make it easier for students to choose which technical qualifications are best for them, and for employers to understand what skills new recruits have.

WHAT EXACTLY WILL A YOUNG PERSON LEARN IN A T-LEVEL?

Within the qualification, students will be taught core subjects such as maths, English and digital skills as well as the specialised skills necessary for a career in their chosen field. The technical route will consist of both college based and employer based training, which is closer to the more successful technical education systems in Europe.

The T-level course will last two years. In the first year, students learn core construction skills, including construction standards, engineering principles and sustainability methods, as well as more specific skills including health and safety, compliance and project management.

In their second year, students specialise in their specific chosen field with a stronger focus on practical work. The second year also includes a three-month work placement with a firm, covering a student's chosen discipline.

WHEN WILL CONTRACTORS BENEFIT?

The first three of the 15 T-levels will come into effect at the beginning of the academic year 2018/19, with the government setting aside £60m to fund them. It means that now more than ever it's a great time if you're a contractor looking for more work and want more people to join your team.

The introduction of T-levels could have an incredibly positive effect on the construction industry as they will help supply a higher volume of trained workers for years to come. If you're a contractor looking for new talent, the next generation is where to look.

RUSSELL
ROOF TILES

Safe and sound

The National Federation of Roofing Contractors (NFRC) is making Health and Safety their number one priority for members, with a focus on wellbeing as well as reducing risk.

As Health and Safety has become such an integral part of our day-to-day working lives, the way it is implemented has also changed. Today, in the majority of cases the people responsible for actioning the rules have a good understanding of roofing and how daily tasks should be done - they're also prepared to listen and learn while ensuring compliance.

This is a far cry from how things used to be and is an approach that has led to the UK becoming a world leader in risk management. It's a position that is in no small part thanks to organisations such as the NFRC, who are putting Health and Safety at the top of their agenda.

Trade Associations such as the NFRC are also a vital part of the Health and Safety Executive's (HSE) strategy as they look to industry bodies to engage with their members on their six strategic themes:

- Acting together
- Tackling ill health
- Managing risks well
- Supporting small employers
- Keeping pace with change
- Sharing our success

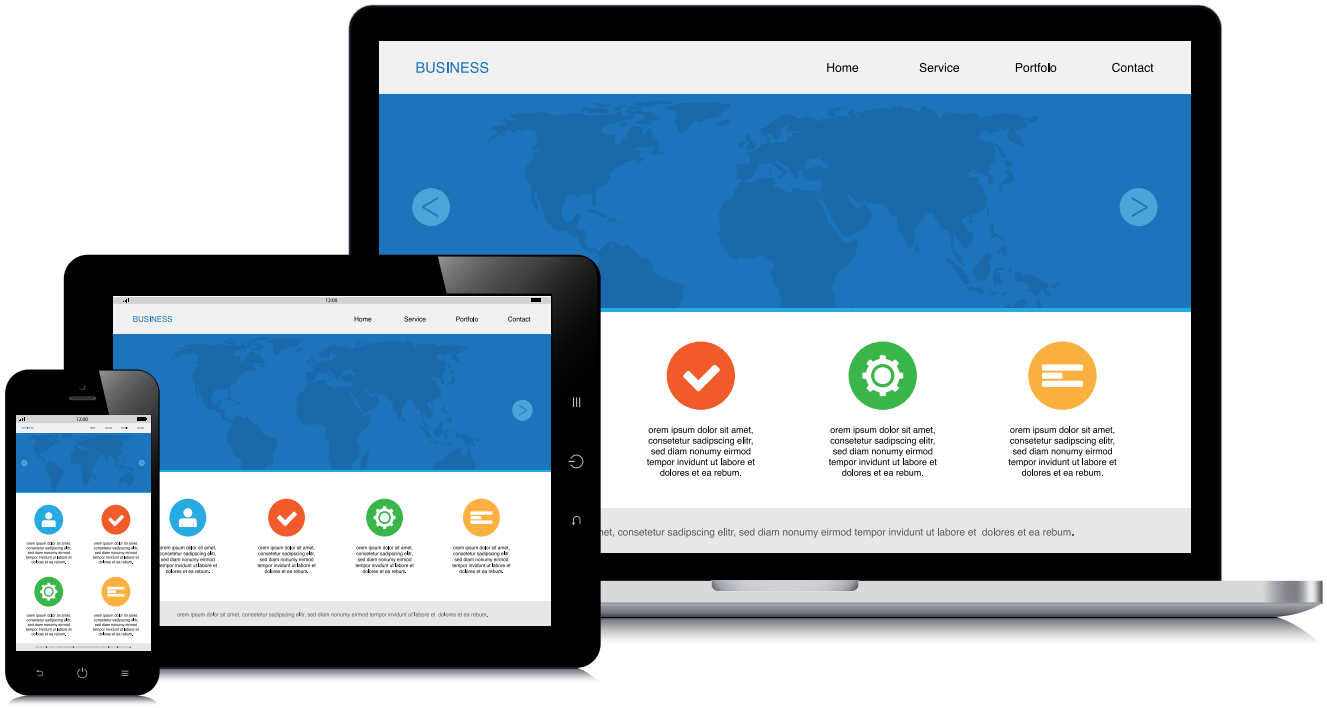
These six strands are now central to everything the NFRC does, from the campaigns it runs to how it responds to cultural changes affecting the industry. They also help keep the safety and wellbeing of the workforce front of mind and reflect the many ways in which roofing is striving to cut out risk, including:

CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS (CDM) 2015

Changes to the CDM regulations in 2015 have altered the way the industry works. There is more emphasis now on designing out the risks at the planning stage of a project, with more collaboration at all levels, from the principle designer right through to the contractor - something that can only be good for safety on site.

USING TECHNOLOGY

Simplifying health and safety compliance and cutting down on paperwork is going to be a vital part of helping smaller sites meet safety standards and create a healthy environment. The challenge is to find new ways to achieve this by using the technology we all have as part of our everyday lives. As such, smart phones and tablets are going to become increasingly important tools to make it easier for the smaller contractor to access the support and guidance they need.



OCCUPATIONAL HEALTH

While much of the focus of health and safety focuses on preventing accidents, the general health of the workforce also poses a huge challenge. According to HSE figures covering a recent twelve-month period, less than 10 deaths were from working at height compared to over 100 deaths from construction related ill health every week.

There are a number of causes of this, from sun exposure at work, breathing in silica dust to mental health issues. From a roofing perspective, if sleep problems, fatigue or relationship issues are affecting your mindfulness on site then you're more likely to have an accident.

CAMPAIGNS

As part of the drive to a healthier workforce the NFRC is supporting a number of campaigns designed to improve the wellbeing of the industry. One of these is the Institute of Safety and Health (IOSH) 'No Time to Lose' initiative. You can access a range of FREE resources at www.notimetolose.org.uk aimed at educating workers on the dangers of things such as silica dust, solar radiation and diesel exhaust fumes. A 'Sun Safety' film is also available to download and makes an ideal toolbox talk.

The NFRC have also joined the Health in Construction Leadership Group (HCLG), whose vision is to make construction the leading industry for occupational health and disease prevention by 2025. The recent HLCG Summit included workshops delivered by the Construction Dust Partnership on designing out health risks and controlling dust, with resources from the Breathe Freely Campaign (www.breathefreely.org.uk). There was also a focus on mental health with a personal account of how this can affect us on an individual level.

The summit ended with the launch of 'Mates in Mind' (www.matesinmind.org) aimed at helping us have a better understanding of mental health and combat the stigma associated with it.

As Clive Johnson of Land Securities and Chairman of the NFRC Health and Safety Committee said: *"We only have one workforce - we have a moral obligation to protect them."*

Safety doesn't happen by accident. As we can see from all the activity and initiatives discussed, working safely needs to be more than a slogan, it needs to be a way of life. For contractors, the best way to create a safe working environment is to work with others in the industry and use all the resources at their disposal. Organisations such as the NFRC and the industry initiatives available are a great place to start.

NFRC
THE NATIONAL FEDERATION OF ROOFING CONTRACTORS LIMITED

Monte Carlo or bust for SR Timber car rally duo

Shaun Revill and Duncan Hargreaves from SR Timber are gearing up for life in the fast lane as they prepare to take part in the Pavestone Rally this autumn.

Over the course of an action-packed four days this September, the intrepid pair will wind their way through ten European countries to raise money for charity. However, the duo won't be driving expensive supercars such as Ferraris, Lamborghinis or McLarens. Oh, no. Instead they will have to buy, pimp and ride the cheapest car they can find.

WHAT COULD POSSIBLY GO WRONG?

The rules of the Pavestone Rally are pretty straightforward: entrants have a budget of just £500 to buy a road-legal car they can 'decorate' and then drive through countries including France, Belgium, Germany, Switzerland and Italy before arriving in Monaco. To add a little more flavour to proceedings, they also have to drive in fancy dress, and so are thinking of themes to pay homage to their flagship Premium Gold roofing batten.

After much searching, Shaun and Duncan have found the perfect banger ready to line up at the start in Dover on 7th September, as they bid to raise money for two charities that the Pavestone Rally is supporting.

And, while the pair can't wait for the event to get going, they have admitted that a lot rests on the car getting them there in one piece.

"We are experts in timber - not cars," said Shaun. *"So picking one that can stand up to the demands of four days of gruelling driving is pot luck.*

Between us, we can do some basic car maintenance, but that's about it – so we're hoping we picked a good one so that we can enjoy the rally as much as possible."

The route will take them from Dover to Belgium and Luxembourg before heading through Germany and Switzerland to Liechtenstein. From there, they will go through Austria and head over the Stelvio Pass into Italy before driving back to France and finishing in Monte Carlo.

The Pavestone Rally is aiming to raise money for both the Rainy Day Trust and the Teenage Cancer Trust, and Duncan is confident that Team SR Timber will raise much more than the £1,500 target.

"I'm sure all our customers and suppliers will rally round and support our efforts to raise money for two very deserving charities. Both will benefit enormously from every penny we are able to raise through sponsorship and donations," said Duncan.

"Besides, we have high standards to live up to because our last big charity fundraiser topped more than £5,000 for the British Heart Foundation, after two members of staff climbed Mount Kilimanjaro last year."

And on that bombshell, we wish them both good speed and look forward to hearing all about their adventures when they return.

Should you wish to support Shaun and Duncan and the very deserving charities, you can donate at: http://uk.virginmoneygiving.com/SR-Timber

S R TIMBER
TIMBER SPECIALISTS

Lock and load

As modern interlocking tiles allow fixings to be secured very easily, it's little surprise they are becoming increasingly popular with contractors and are a growing trend in the industry.

Technological advancements have brought considerable improvements in the design of roof tiles. We can now manufacture building materials much more easily and understand significantly more about how we can improve their performance and quality.

Interlocking roof tiles are a case in point, and while their popularity is growing their full potential is yet to be realised. These products are good value for money and very easy and quick to install, which means they need less skilled labour. This is good news in terms of the skills shortage as they can help reduce the strain of searching for skilled labourers and avoid delays in projects.

The changes to BS 5534:2014 were introduced to guard against increases in extreme weather and to align British Standards with European Building Regulations. One of the changes was that tiles need to be mechanically fixed with either a clip or nail, which led to concerns over installation time and costs. However, interlocking tiles are helping to overcome these concerns as they are so efficient to install - a win for contractors.

There are a number of reasons why the modern interlocking tile is thriving:

- High levels of performance at lower pitches
- Greater versatility and dynamism in a building project
- Speed of installation increases efficiency
- Durable and reliable finish
- Help comply with Building Standards and regulations such as BS 5534:2014

For contactors looking for ways to work quicker and address the skills shortage, interlocking tiles could provide the perfect solution.

Wienerberger

For more information please fill in the reader response card

ENQUIRY 2

Doing the right thing

STANDARDS & LEGISLATION

Marley Eternit remind us why working to the British Standards improves the quality of your service, protects your reputation and reassures homeowners.

The damage caused by storm Doris in February reiterates why the revised BS 5534:2014 came into force and its contribution to roofing security is widely acknowledged as best practice. Extreme weather like this is becoming increasingly common and the destruction caused by strong winds stresses the importance of making sure roof coverings and accessories are mechanically fixed to guard against this.

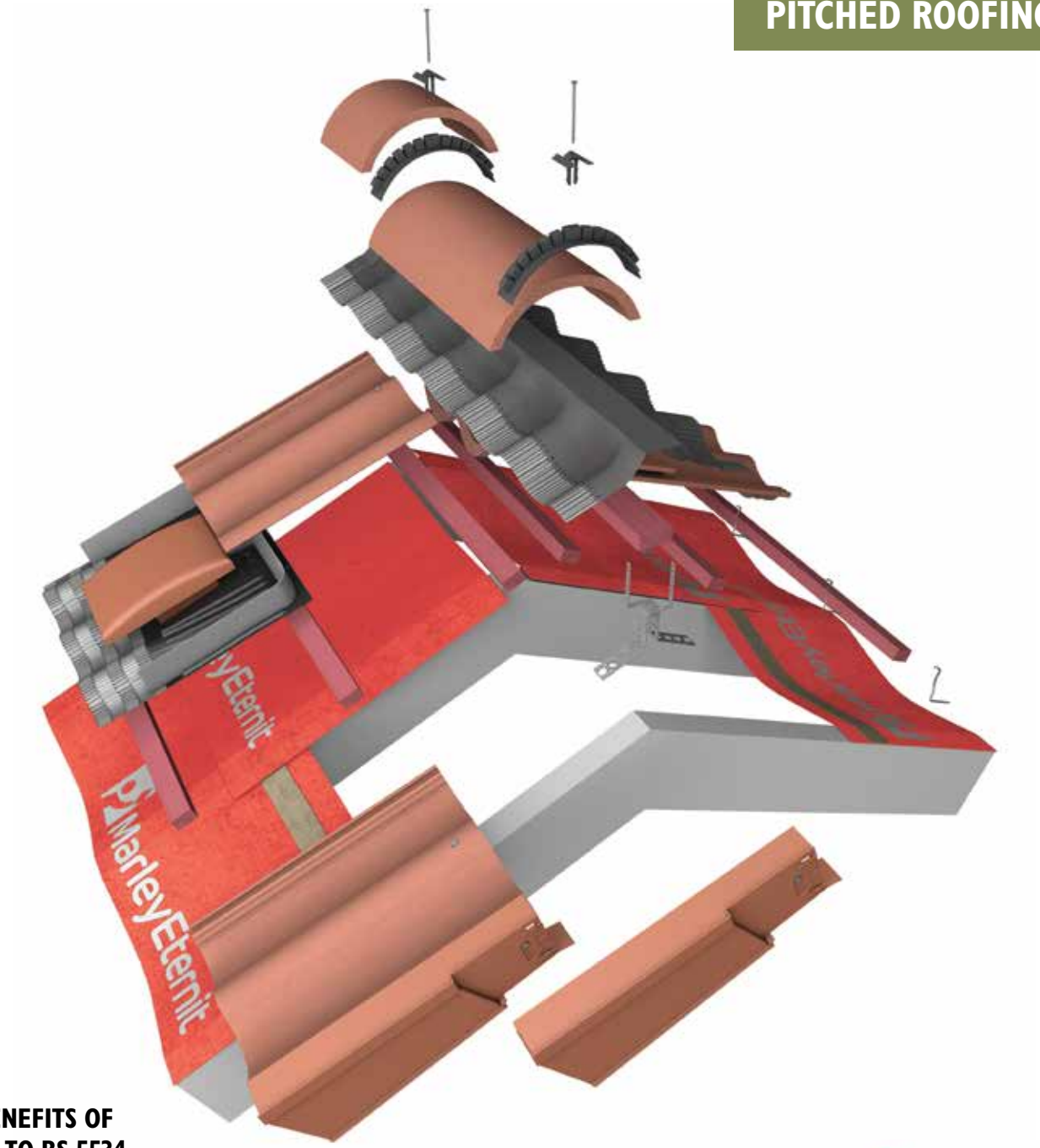
The National Federation of Roofing Contractors (NFRC) estimates that as much as 80% of re-roofing in the UK is not yet done to the correct Standard, putting both people and property at risk. One of the reasons for this is that the Standard is not yet a requirement to sign off Building Regulations, which means that a roof can meet Building Regulations and not be sufficiently fixed to meet BS 5534.

INCLUDING BS 5534 IN BUILDING REGULATIONS

To improve standards and safety, a cross industry group led by the NFRC and supported by companies like Marley Eternit is calling on the government to include BS 5534 into the Approved Documents to the Building Regulations (as part of an update to the standard BS 5534:2014+A1:2015). This means it is very likely that complying with the Standard will soon be a legal requirement. Meaning, if you're not fixing to the Standard already, you'll probably need to very soon.

Kevin Taylor, from the NFRC, told us: *"BS 5534:2014+A1:2015 sets out some important changes to the safe and secure fixing of roofs and we are working alongside our partners to strongly recommend it is included in Approved Document A of the Building Regulations. Both the NFRC and CompetentRoofer believe that unless roofs are fixed to BS 5534, then there is a real risk of roof failure, or even injury to people and damage to property, especially in high winds.*

While members of the NFRC and CompetentRoofer schemes are required to fix to BS 5534 recommendations, many other roofers still aren't and it's simply not worth the risk. If roofing is not carried out to BS 5534 and the work is challenged, it will invariably need to be put right (unless there are exceptional circumstances such as heritage work). We have seen situations where roofs have had to be stripped and re-done."



THE BENEFITS OF FIXING TO BS 5534

Including BS 5534 in the Approved Documents to Building Regulations will level the playing field and make the situation much clearer for everyone. It makes sense to start now so that you are fully up to speed on exactly what you need to do when the law changes. The benefits to you as a contractor far outweigh the alternatives and include:

- Reduced re-work costs with less risk of call backs and claims against warranties
- Protecting your reputation for quality workmanship and reducing risk and liability
- Improved on-site safety with fewer accidents from using non-compliant materials
- Protecting homeowners and occupants by ensuring the roof is safe and fixed to modern high standards
- Creating a level playing field with everyone pricing against the same levels of fixing, making it much fairer for both roofers and consumers

The advantages of fixing to BS 5534 far outweigh the potential costs of not doing so. It's simply not worth the risk of roof failure and if the work is challenged it will invariably need to be put right. If you change the way you work now, then you'll be perfectly placed for when the standard becomes law.

MarleyEternit

For more information please fill in the reader response card

ENQUIRY 3

More T vicar?

CASE STUDY

When The Old Rectory in St. Botolph, Norfolk, needed a new slate roof, SIGA Natural Slate's 39T slate helped create a beautiful finish, preserving the heritage of this historic building.

At three stories high, the existing roof was significantly deteriorated from the weather and had a number of different types of slates and finishes on a mix of pitched and flat areas. In other words it was a bit of a mess! The vicar looked to the contractor, A Royden Roofing, for advice on the type of slate to use.

The mission was to find a way to reroof the building with a new, improved and consistent finish that was in keeping with the style and history of the property - whilst preserving its beauty. Fortunately, SIGA had just the solution!

THE BRIEF

The roof area was extensive at 250m^2 and had been updated on a number of different occasions. To complicate matters, the flat roof areas were finished with bitumen and felt which had started to tear and shrink, adding to the roof's rather ragged aesthetic.

It was clear the project needed a high quality solution that was guaranteed to last for many years, give an outstanding finish and restore the building back to its former glory. The contractor also needed to provide a single package warranty and SIG Roofing's unique ONE Warranty was the perfect choice - as it would give the property owner peace of mind that the pitched roof products performance would be covered for 15 years.

THE SOLUTION

The contractor had already worked with SIGA Natural Slate on previous projects, enjoying the quality and the confidence that each slate is fully traceable, tested to BS EN 12326:2014 requirements, and CE Marked, with warranties backed by SIG Roofing, a FTSE 250 organisation.

After assessing the issues and investigating the most suitable solutions for each area, the contractor recommended SIGA 39T, from SIGA's Specification range, which has a 75 year warranty. SIGA 39T is a high quality slate with a uniform thickness which meant little or no sorting of the slates was required, saving time and helping to ensure the project went as smoothly as possible.

The roof contained 3 chimneys and a large roof lantern which sat on a turret. The lantern added significant complexity to the project, which had to be halted to wait for its delivery. During this pause in proceedings, the roof had to remain watertight so glass reinforced plastic was used. For the installation of the lantern itself, intricate cutting of the slates was required as well as delicate lead work.

For the two main flat roof areas CrysticROOF was chosen. This glass reinforced plastic is a robust, environmentally safe composite and complemented the slate perfectly.

The roof was reconstructed using SR Timber Premium Gold Batten and Klober Permo® Air underlay, along with Paslode batten nails. These high quality products added value to the project and they qualified for ONE Warranty.

THE RESULT

The project was completed on time and to budget, taking around 5 weeks in total and The Old Rectory has now been returned to its former glory with a stunning new roof which will be in place for many years to come.

The careful selection of products has given an outstanding aesthetic to this historic building, and ensured that the roof products performance are covered for 15 years with SIG Roofing's ONE Warranty. Both the contractor and property owner have peace of mind that quality products have been used and have been installed correctly.

Andrew Royden from A Royden Roofing, the Main Contractor, was overjoyed with the outcome. He commented: *"SIGA Slate is a brilliant product to work with. I favour it over any other slate, because it's so easy to use, and there's very little sorting required which is a great time saving benefit."*

ONE WARRANTY covers your pitched roof products' performance for 15 years – providing a single warranty package that is easy to understand and even easier to use.

ONE WARRANTY is designed to provide peace of mind to the property owner that their investment is well protected and to make roofing contractors' lives as simple as possible, whilst offering you a competitive edge.

ONE Roof, ONE Name, ONE WARRANTY!

- **ONE warranty for the roof products' performance**
- **ONE supplier for goods and warranty**
- **ONE warranty registration process**
- **ONE contact to process a claim**

SIG ROOFING ONE WARRANTY 15 YEARS ONE ROOF · ONE NAME · ONE WARRANTY

SIGA Natural Slate

For more information please fill in the reader response card

ENQUIRY 4

Air-open underlays... a simple choice

Changes to BS 5534:2014 and NHBC technical requirements use of 'air-open' (or 'air-permeable') underlays, such as Klober Permo® air have enabled the reduction of roof ventilation issues.

It should be stressed that you use an air-open underlay if no supporting high-level ventilation is provided. The only problem this poses for roofers is that claims are still being made that some vapour permeable underlays (VPUs) meet the water vapour transmission and air permeability criteria set for air-open products.

Of more than a hundred VPUs now available, there are only two which provide this higher level of 'breathability' and vapour transmission. As a result, a product which offers a level of performance at the top end of the vapour permeability scale will still fall a long way short of being air-open.

A BBA certificate will identify very clearly that a product is air-open. The best advice is to ask the manufacturer to confirm if the water vapour resistance is no more than 0.1 MNs/g (MegaNewtons seconds per gram) and use that as a simple benchmark of performance. For roofs that need the highest standard of ventilation performance, Klober Permo® air, for example, has a water vapour resistance which has been independently tested and shown to be as low as 0.03 MNs/g. This is essential during the critical drying out period on any new build.

Look out for BBA certificates for both cold and warm non-ventilated pitched roofs and for information on projects on which the product has been used. These should include complex roof designs and high profile buildings where traditional tile or slate vents were not acceptable. You may also want to consider asking for a technical specification to be provided as an additional safeguard or proof of suitability. Manufacturers such as Klober also provide a specific condensation risk analysis service as an added means of support for their product.

The bottom line is never to assume that just because a product is vapour permeable that it is also classed as 'air-open'. You could say it's an underlaying truth!

KLÖBER
Professional roofing accessories

For more information please fill in the reader response card

ENQUIRY 5

Passiv behaviour

STANDARDS & LEGISLATION

As building regulations get tighter and expectations for energy efficiency greater, DuPont™ explain how their Tyvek® membranes can help your project reach even the very highest airtightness Standards.

There has been a new rigorous voluntary approach to energy efficient building in recent years, resulting in ultra-low energy buildings becoming increasingly popular. The philosophy, known as Passivhaus, is growing largely due to an increasing demand for greater performance and lower running costs.

In fact, Passivhaus is now the fastest growing energy performance standard in the world and is widely recognised as a benchmark for airtightness systems. The approach is simple: build a house that has exceptional thermal performance and exceptional airtightness with mechanical ventilation. In other words you create a building that requires minimal heating in winter and that stays cool in the summer while also providing excellent indoor air quality.

In order to achieve anything like the Passivhaus standard it's essential to use the highest quality products and to make the right decisions when choosing materials. This is especially true for the roof, which is such an integral part of the overall airtightness of the structure - particularly where the roof forms the primary space protection from the outside, such as attic rooms. It's crucial that roofs are airtight, water-tight and able to withstand wind damage.

TESTING AIRTIGHTNESS SYSTEMS

Earlier this year, the BRE International Testing and Certification organisation conducted independent testing of airtightness systems against Passivhaus Standards.

In terms of airtightness, Passivhaus recommends less than 0.6 ACH (air changes per hour) with a pressure difference between inside and outside of 50 Pa.

In the BRE airtightness tests, a timber structure was enclosed entirely in a DuPont™ Tyvek® and AirGuard® airtightness system of membranes, tapes and sealing products with Tyvek® Supro installed on the roof. Tyvek® FlexWrap EZ and Tyvek® tapes ensured a tight, long lasting seal.

The results impressed even the BRE scientists and technicians, who recorded a reading of 0.24 ACH, a vast improvement on the target figure of 0.6 ACH. This was one of the best recordings they had ever achieved.

The tried and tested Tyvek® and AirGuard® airtightness system continually evolves to meet changing market requirements with even more innovations to be introduced over the coming months.

As building regulations get tighter and expectations for energy efficiency increase, it's essential that roofs are airtight, water tight and able to withstand wind damage. Therefore by choosing wisely in the planning stage and you can ensure quality and endurance, as well as compliance with regulations. With a little forethought, it's possible to meet, or as seen in the BRE testing of the straightforward Tyvek® and AirGuard® airtightness system, surpass even the highest Standards.

DUPONT
Tyvek.

For more information please fill in the reader response card

ENQUIRY 6

Five steps to fixing fibre cement slates

A handy little guide to help make fixing fibre cement slates as easy as 1, 2, 3...

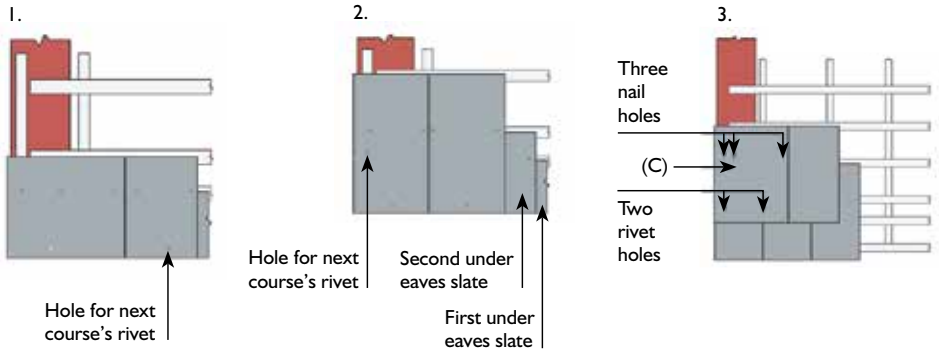
One of the areas most affected by the changes to BS 5534:2014 was fixing. As this is such a central part of the new Standard it's important to get it right, especially on eaves and verges. With that in mind the team at Cembrit have supplied this handy little guide to ensuring your fibre cement slates are fixed to perfection.

STEP 1

Use a tilting fillet to make sure the underlay is supported behind the fascia so it doesn't sag between the rafter feet. The underlays finish by hanging into the gutter, so that any moisture on the underlay drains into the gutter. Eaves should not be sprocketed, as this will affect fitting of the disc rivet at the tail of the eaves' course.

STEP 2

You need three courses of slates at the eaves. The first under eaves course is cut and drilled and head nailed to the length of the batten gauge. Eave overhangs should be 50-55mm for 100mm gutters. Locate the centre point of the eaves and centre the first under eaves slate. Lay the first full slate over the top of this under eaves slate and cut the slates on both verges to the same width. Work towards both verges with the remaining under eaves slates.



STEP 3

Cut the second under eaves course from the same slate as the first course. Its length is the batten gauge, plus the slate headlap. This second under eaves slate provides the double lap for the next but one full course of slates. Install it to cover half the width of the first under eaves slate, allowing the shank of the tail rivet for the first full course of slates to pass between adjacent second slates, which oversails the fascia 50-55mm.

STEP 4

Nail the first full course of slates to the second batten so that the tail rivet passes between the two second under eaves slates and protrudes through the hole in the tail of the full slate. Ensure the first full course of slates oversails the gutter by 50-55mm. The tails of all three courses of slate should align and overhang the gutter.

STEP 5

To provide the correct bond, make sure the verge slate on alternate courses is a slate and a half width cut from a double slate. These verge slates need pre-drilled holes for three nail and two rivet fixings, and an extra hole to allow the tail rivet for the course above to pass through the slate and a half. The next single verge slate requires an additional hole for the tail rivet of the subsequent slate and a half. Tail rivets should pass between two adjacent slates and through a hole in the tail of the slate they are holding. The protruding shank of the rivet is bent down the slope.

And there you have it…five simple steps to make sure your fibre cement slates are fixed exactly as they should be.
Thanks Cembrit!

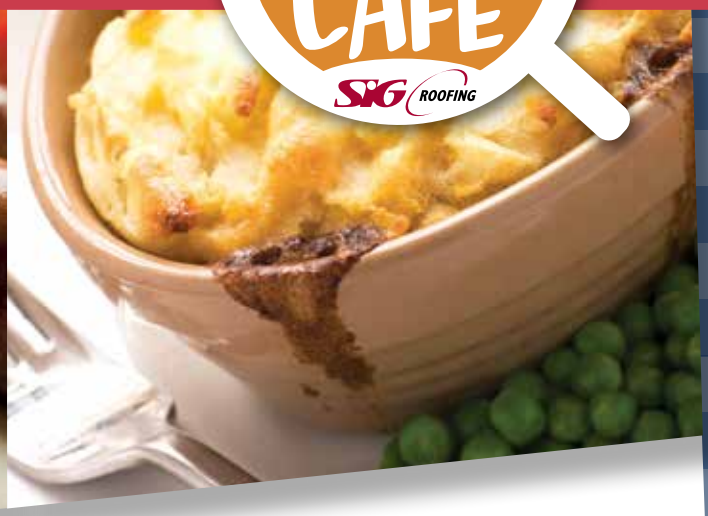
CEMBRIT
Building Better Days

For more information please fill in the reader response card

ENQUIRY 7

THE SEARCH FOR BRITAIN'S BEST CAFE

BRITAIN'S BEST CAFE
SIG ROOFING



WE'RE LOOKING FOR BRITAIN'S BEST CAFE!

VOTING OPENS 17th July 2017

VOTE YOUR LOCAL CAFE AS BRITAIN'S BEST CAFE

SIG ROOFING

Media Supporter:

rci 2017 THE NATIONAL ROOFING CLADDING & INSULATION SHOW

1st and 2nd of November
Ricoh Arena, Coventry

THE SEARCH FOR BRITAIN'S

THE SEARCH FOR BRITA
AND WE CAN ALL BE PA

Local cafes around the UK are vying for the title of **BRITAIN'S BEST CAFE**. SIG Roofing and cafe customers alike have the chance to vote for their favourite local cafe in the competition. Voting takes place from the 5th September to the 28th October and the cafe with the most votes will win the prestigious title of Britain's Best Cafe!

The national competition is being organised by **SIG Roofing** and its local branches, where they will be supporting the cafes in their bid to win the title. When votes are counted at the end of October, 14 regional winners will be announced, with the national winner confirmed at the end of November.

SIG Roofing's customers and staff love their local cafe and contractors who use their products are some of their biggest fans. With our local cafes around the UK helping the nation to get to work every morning courtesy of the famous morning cuppa, Bacon Buttie or the legendary British Breakfast the competition is really hotting up and every vote counts!

Janine at **SIG Roofing** told us: **"We think roofers and local contractors are the best people to judge what makes a great cafe, but we want everyone to join in the fun – that's why we've opened up the voting to the general public too. Our customers work hard and start early, so they're always on the lookout for a local cafe with cheery, friendly staff which serves a great British breakfast."**

SIG ROOFING

Media Supporter:

rci 2017 THE NATIONAL ROOFING CLADDING & INSULATION SHOW

1st and 2nd of November
Ricoh Arena, Coventry

BEST CAFE

IN'S BEST CAFE IS ON...
ART OF IT!

RCI (Roofing Cladding and Insulation) are supporting the competition, as they, like a lot of us, are amongst some of their local cafes most loyal customers! The team at RCI are excited to be part of the competition and will be featuring more about the competition in the RCI magazine and online.

To find out if your favourite cafe is included either; speak to your local cafe or SIG Roofing branch or visit **www.britainsbestcafe.co.uk** – where you will see all of the cafes hoping to win. Once there you can vote for your favourite!

So, **BRITAIN'S BEST CAFE** will be decided by public acclaim and later this year all the winners will be invited to share in an awards ceremony, where someone else cooks the lunch! Then the overall winner and their partner will be on their way to **New York City** for an all-expenses holiday plus the chance to tell the proprietor of a famous Manhattan diner why the great British Breakfast is still the best!

IT'S UP TO YOU NOW

If you have a favourite cafe you can help them win the chance to be crowned **'BRITAIN'S BEST CAFE'** by voting for them and encouraging other to do the same! Pick up a voting card and vote at your local **SIG Roofing** branch or online at **www.britainsbestcafe.co.uk**

It's simple – the cafe with the most votes wins... so every vote really counts! Be sure to do all that you can to support your favourite local cafe and vote today.

LIKE us on Facebook
www.facebook.com
/britainsbestcafe/

FOLLOW us on Twitter
@britainsbestcaf
#votebreakfast

#votebreakfast

THE SEARCH FOR BRITAIN'S BEST CAFE

BRITAIN'S BEST CAFE
SIG ROOFING

VOTING OPENS 17th July 2017

VOTE YOUR LOCAL CAFE AS BRITAIN'S BEST CAFE

Nothing sets you up for a hard day's work better than a great breakfast or hearty lunch at your local cafe. To say thank you for all their hard work day in, day out we're giving you the chance to vote for them in our nationwide search for **Britain's Best Cafe** from 17th July 2017. Visit your **SIG Roofing** branch to vote or go online to **www.britainsbestcafe.co.uk**

SCAN ME to visit the website

LIKE us on Facebook
www.facebook.com
/britainsbestcafe/

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1st and 2nd of November
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Get all the latest news from the roofing industry direct to your door!

IT'S FREE

If you haven't already subscribed to INSIGHT magazine and want to know what's new out there, what's happening in the industry and what opportunities there are for the specialist roofing contractor look no further…

INSIGHT magazine from SIG Roofing, shares unbiased product and industry information news from the UK's leading manufacturers, Trade Bodies and industry leaders. Making sure you can access the latest information you need to know, when you need to know it!

Subscribe online or refer a fellow roofer and receive a FREE T-shirt! Simply sign-up for INSIGHT magazine at: www.sigroofing.co.uk/insightmag

Or fill in the reader request card to receive your FREE INSIGHT magazine and receive a FREE T-shirt!

ENQUIRY 8

The most tip-top... TOPHAT

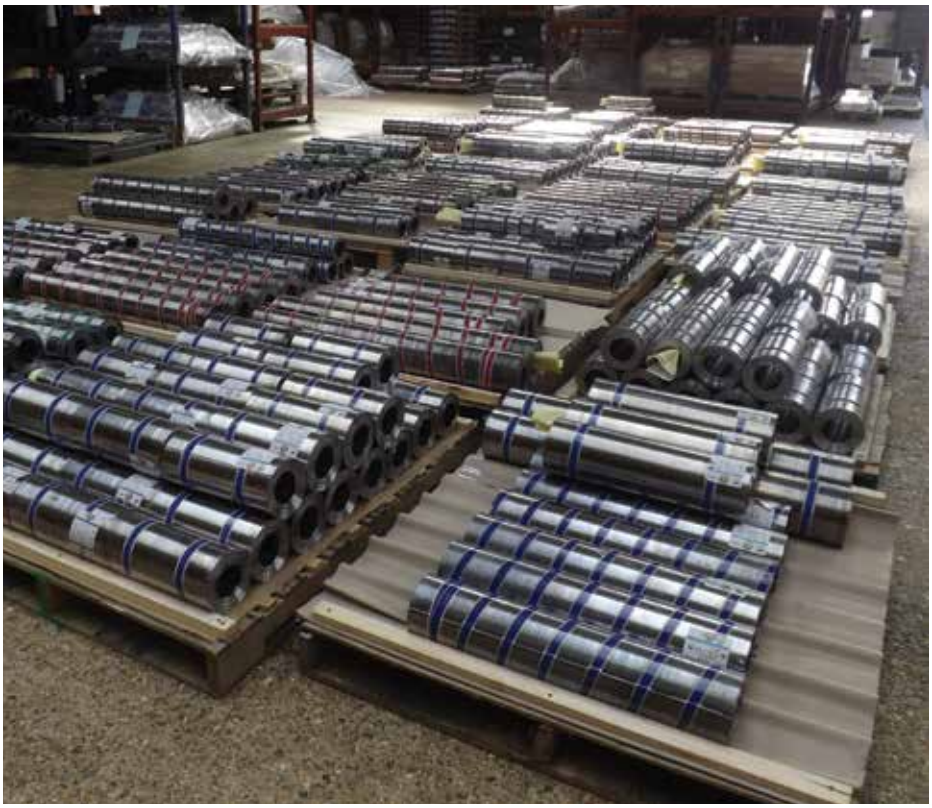
Associated Lead Mills (ALM) and Jamestown Metals have introduced the TOPHAT guarantee scheme designed to ensure the source and quality of the lead that is installed, stocked or specified.

The TOPHAT scheme covers traceability of product, hallmarking and transparency of source and means that contractors, merchants and architects can benefit jointly from the use of British Standards lead (conforming to BS EN 12588:2006) and the Lead Sheet Association (LSA) guarantee.

As a contractor all you have to do to qualify for the scheme is agree to use Envirolead lead sheet, manufactured exclusively from material recovered from used car batteries from ALM or Jamestown. By doing so you guarantee the material is from a fully documented and trusted source. When Envirolead and Premium roofing products are used together, installers can then offer a 50-year warranty to customers backed and provided by the LSA.

As part of the TOPHAT process ALM and JML will monitor who is registering their works for the guarantee and recommend them to Architects for future projects, offering contractors additional opportunities to benefit from the scheme.

It will also help reduce the number of situations where non-BS EN12588 lead has been used and the cases of fatigue cracking that occur as a result. The British Standards material has a ± 5% limit on its thickness and provides a benchmark for quality against which few would argue.



The TOPHAT lead guarantee scheme covers a range of areas to provide a benchmark of lead quality, including:

- **Traceability of product**
- **Hallmarking**
- **Transparency of source**

National Specifications Manager Steve Reynolds explains: *"By signing up installers, merchants and architects to the scheme, everyone in the supply chain knows the source and quality of the lead they install, stock and specify. We are now receiving a rapidly increasing number of requests for CPD presentations to architectural practices and, with specification made straightforward through the provision of BIM objects, more than 95% of those who have invited us to do so have signed up to the scheme.*

Upon joining the scheme, you'll need to commit to using the company's Premium Roofing Products and by doing so you'll be made known to architects as a means of guaranteeing installation quality. We are also working alongside the Lead Contractors' Association and the National Federation of Roofing Contractors to promote TOPHAT, not just within the Associations but as part of work to lobby for improved standards within the industry."

CAR BATTERIES RECYCLED TO LEAD

By using Envirolead you ensure that the material specified is clearly defined and, because of the efficiency of the raw material extraction, offers the highest levels of sustainability.

During the manufacturing process the waste car batteries are taken in by the plant, broken and separated. The lead is then sent to the processing plant to be milled into BS EN 12588:06 - the highest quality possible.

Hats off all round!

TOPHAT

The sustainable recycled content and unbroken chain of custody is what makes Envirolead one of the most desirable materials on the market. This is why the TOPHAT initiative was introduced - working together in a positive partnership, guaranteeing the guarantee.

ALM

envirolead

JML Jamestown Metals Limited

For more information please fill in the reader response card

ENQUIRY 9

It's no longer... pot luck!

STANDARDS & LEGISLATION

WT Knowles have certified their range of chimney pots against the British Standard BS EN 13502:2002 so you know you're using the right…~~tool~~…pot for the job.

In a rapidly evolving industry such as roofing, keeping up with changing standards and directives is an ongoing job. For example, where chimney pots are concerned, trying to understand which pot should be used on which application and if what was installed previously meets today's legislation and standards can give you a bit of a headache. What should you use on solid fuel? gas? or if the client has a decorative fuel effect fire (DFE)? and how can you be certain that the selected pot meets current regulations and standards?

Fortunately, all that is a thing of the past as WT Knowles, the clay chimney pot manufacturer, have recently completed a full review and re-classification of a large part of their range with the help of the British Standards Institute (BSI).

Standard BS EN 13502:2002 covers chimneys and specifically the requirements and test methods for clay and ceramic flue terminals. The Standard defines certain designs of clay terminals as:

- **Type 0** - Open topped terminals with no flow restrictions
- **Type 1** - Restricted flue terminals
- **Type 2** - Restricted flue terminals with a resistance factor not greater than 5

Type 0 terminals don't need aerodynamic testing and are used exclusively on solid fuel applications, whereas Type 1 and Type 2 terminals do require aerodynamic testing.

As a result of the testing, WT Knowles now has 19 ranges certified as Type 0, 12 ranges as Type 1 and 13 ranges as Type 2. The testing specification also included acid resistance and freeze/thaw resistance of the clay material used in the manufacture of all flue terminals. This was also carried out by BSI and is recorded on the certificate. All flue terminals are stamped in accordance with the requirements of BSI Standard BS EN 13502.

To help contractors further there's a handy Chimney Pot Classification guide available that shows you which pots to use for different types of job. In the guide the company recommends using Type 0 and Type 1 pots on solid fuel, Type 1 (DFE) pots on multi-fuel and Type 2 pots exclusively on gas applications. For a copy of the guide, fill in the reader response card.

EST. 1906
WT KNOWLES & SONS LIMITED
CHIMNEY POT & CLAY PIPE MANUFACTURER

For more information please fill in the reader response card

ENQUIRY 10

Good recovery

Advances in technology and materials mean the flat roofing market is enjoying a resurgence, with flat roofs offering an attractive, low-cost option on many projects.

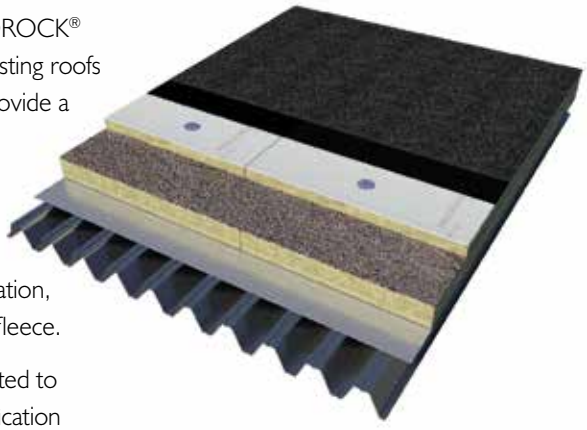
One of the main drivers in the flat roof sector is roof membrane repair and maintenance, with most flat roof membranes having a lifespan of between 20-30 years. After this, it's common to replace or repair the membrane to make sure the roof stays watertight.

As long as the existing roof structure is in good condition you can usually overlay the roof with a new waterproofing system. However, with so many different options available, not all waterproof membranes are compatible with each other and, dependent on the status of the existing membrane, it may not be possible to apply a new one directly to the original surface. In these cases you normally use an isolation layer to prepare the existing roof for the new membrane and/or to act as a separation layer between the two waterproofing layers.

A SINGLE SOLUTION

The answer to the high number of waterproofing options on the market is to provide a single solution that is compatible with all common membranes and suits a wide range of applications. That's why ROCKWOOL® has developed the HARDROCK® Multi-Fix Recovery Board.

Ideal for both domestic and commercial projects, you can install the HARDROCK® Multi-Fix Recovery Board onto existing roofs to absorb uneven surfaces, and provide a high quality, smooth flat finish. It can be applied using either adhesive or mechanical fixings, and provides a strong bond between the membrane and insulation, thanks to an integral mineral fibre fleece.



The Recovery Board has been tested to achieve an A1 Euroclass fire classification and is FM Approved. Capable of achieving 0.039 W/mK lambda value the product contributes to increased thermal performance and improves acoustic performance of existing flat roof systems by up to 47%, dependent on membrane type.

One simple flat roof solution, for multiple applications.

ROCKWOOL®

For more information please fill in the reader response card

ENQUIRY II

SIGnature's Torch On System...ticks all the boxes

CASE STUDY

And proved to be the ideal solution for repairing the leaky roof at Layfield Primary School in Yarm.

It wasn't long after the builders had finished it that the Foundation Stage and Children's Centre at Layfield Primary School's roof started leaking. While the problem causing the leak was not immediately obvious, the effects were very clear; water was finding a way into the building, running down the internal walls and causing damp patches on the ceilings.

"It was a constant battle for the school," says Ian Dryden, National Specification Manager - Bituminous Membranes for SIG Design Technology, who worked with contractor Roofix Ltd to make the roof watertight once more.

THE PROBLEM

The leaking area was made up of two pitched oval roofs with a flat roof below. Ian found that water was coming into the building though the detailing around the perimeter upstands and at the intersection with the lower roof.

THE SOLUTION

It was identified early on that both the flat and pitched roofs needed replacing - severe damage to the 450sq m flat roof meant it needed to be stripped right back to deck.

To make that part of the building watertight again Roofix used the SIGnature Torch On System comprised of a Self-Adhesive Vapour Control Layer, tapered insulation, SIGnature Underlay25 and SIGnature AA Cap Sheet.

The system proposed benefited from being EXT.F.AA fire rated and also offered the reassurance of a warranty when used on a new roof or as an overlay, as it was in this situation.

For the 250sq m pitched oval roofs, using the SIGnature system as an overlay meant the original single ply roof could stay in place without needing to be stripped, saving the school a significant amount of money.

Plasticizers help improve a material's flexibility - plasticizer migration is when the plasticizer migrates out of the old sheet causing it to become brittle. To prevent this process occurring between the old and new roofs, Roofix fitted a 300g separation fleece on the original roof followed by a mechanically fixed SIGnature Underlay25 and a fully-torch bonded layer of underlay and cap sheet.

THE DEVIL'S IN THE DETAILING

To complete the job it was essential to correct the detailing of the junctions with the flat roof and the upstands around the

perimeter. To do this Roofix developed a way of close mitre cutting and bending the GRP trim in place so that it formed a complete seal around the upstand.

The time and care Roofix had put into the detailing was second to none. *"Good tradespeople come up with good solutions,"* said Ian. *"And this ticked all the boxes from the client and the local authority's points of view,"* he added. What's more, the roof has been leak-free for 18 months since the repairs were carried out. Sarah Powell, who works at the school, is delighted with the results: *"We've had no problems whatsoever ever since. It's a massive relief!"*

The SIGnature Torch On System comes with three underlay options with either 20 or 25 year warranties, when used with the SIGnature Fire Rated Cap Sheet:

- **SIGnature Underlay25 (25-year warranty)**
  A polyester carrier, reinforced, SBS, torch applied intermediate or base layer (dependant on specification).
- **SIGnature Underlay20 (20-year warranty)**
  A glass tissue carrier, reinforced, SBS, torch applied intermedia or base layer (dependant on specification).
- **SIGnature UnderlaySA (Self-Adhesive) (25-year warranty)**
  An elastromeric self-adhesive, polyester fabric reinforced underlay. Coated with SBS modified bitumen that has a smooth upper surface that forms an ideal surface for bonding subsequent cap sheets and has a release film backing.

THE SIGNATURE TORCH ON SYSTEM RANGE

For more information please fill in the reader response card

ENQUIRY 12

Game of foams

Foam adhesives could be well worth considering for your next flat roof project - due to the advances in the chemical formulations and application methods.

Foam adhesives are becoming a fast, effective and highly popular choice to bond insulation materials in flat roofs. One of the main advantages they offer is that you don't need to penetrate the roof substrate to do the job - particularly useful on 'live' buildings where you don't know the exact path the pipework or power cables take under the surface.

While liquid polyurethane adhesives are still the most common type of cold applied adhesive, manufacturers have recently developed new foam formulations that give users a host of benefits:

- Quick to use, typically taking around an hour to fully cure
- Foaming action helps fill small imperfections in substrates and joints between insulation boards
- Act as an insulator when cured, aiding thermal performance
- Non-drip so suitable for bonding onto vertical surfaces such as upstands

Although foam obviously expands, newer foam adhesives, such as Soudatherm 330, have low foaming formulations so they don't push boards up. This means there's no need for boards to be 'walked in' or weighed down.

NICE GUNS

Improvements in modern applicator tools mean you can use newer gun applied foam adhesives more precisely. This ensures you use the correct amount of product, without wasting any after you've finished applying it. Gun applied systems are also generally fairly low maintenance, and can be stored for a few weeks without cleaning.

If you haven't considered foam adhesives and you are looking for a convenient solution to install flat roofs, perhaps now is the time to do so?

SOUDAL

For more information please fill in the reader response card

ENQUIRY 13

Getting with the programme

STANDARDS & LEGISLATION

The CarbonZero programme can help you meet current environmental standards and win more work!

Knowing the overall lifecycle of a product, how it's manufactured and its impact on the environment is becoming more important for contractors. On a growing number of projects, specifiers and developers are asking that either the whole development or the products used are both environmentally friendly and carbon neutral too. And, it's across the board - commercial, public sector or private, new build or RMI.

In light of this, joining a scheme such as the CarbonZero programme helps you ensure you're using appropriate products to minimize your environmental impact. It's one of the world's first internationally accredited Greenhouse Gas (GHG) certification schemes and gives you tools you need to measure and reduce your carbon footprint.

This is good news for contractors as being part of the CarbonZero programme can help you win more work and often at a higher margin. Marcus Lee, IKO Sales Director – Hot Melt and Mastic Asphalt Specification Division, explains: *"A low carbon footprint is often asked for on jobs and using products that are offset means contractors can offer a solution. CarbonZero products can also help contractors win awards and bring in further business, particularly if they promote the scheme actively. There's a strong demand for products that focus on sustainability too."*

IKO is the only UK mastic asphalt manufacturer to carbon offset. The company is committed to the CarbonZero programme, with 1,377.29 tonnes of CO2 offset across various projects during 2016. Recent CarbonZero projects include:

- The award-winning Westminster Cathedral roof repair used 35 tonnes of Mastic Asphalt equating to 5.5 tonnes of CO2 offset
- Four Squares Estate in Southwark used 1,400 tonnes of Mastic Asphalt offsetting 218.4 Tonnes of CO2
- Projects also benefitting from the scheme include the Kenyan Improved Cook Stove project, the Vietnamese Small Scale Hydro project, and an Indian Wind Power project

Standards such as ISO 14001 (Environmental Management) and BES 6001 (Responsible Sourcing of Products) are increasingly required on projects, as well as ISO 9001 (Quality Management). Three of IKO's existing factories have achieved all these standards, including the Grangemill manufacturing plant where their CarbonZero products are produced.

Contractors are under immense pressure to demonstrate responsible sourcing to potential clients, so being able to use products that have these credentials puts you ahead of the pack.

IKO Setting the Standard

For more information please fill in the reader response card

ENQUIRY 14

Shore thing

Lymington Shores in Hampshire is a Redrow high-end residential development that needed multiple single-ply roof specifications for 12 villas and three apartment blocks.

CASE STUDY

Sitting in a prestigious waterfront location, just off the Lymington Marina with views of the river and beyond, the sheer scale of this project was quite a prospect. A total of 164 different roof areas covering 11,931m^2 meant that the contractor, Flat Roofing Membranes Ltd (FRM), knew they had their work cut out from the start. They were, however, more than up to the challenge!

A REAL TEAM EFFORT

Managing Director, Julian Rodgers explains: *"In the whole of my 30-year career in flat roofing, I've never worked on a project as challenging as this in terms of scope, scale and complexity."* And, when you look at what was involved it's easy to see what he means. The team needed to deliver complex roof design and high-impact aesthetics using sustainable membranes and high-quality workmanship. Four distinct types of roof areas demanded that the installation team drew on all their knowledge, skills and experience with approximately 10 skilled installers who worked on the project continuously.

Together they have a combined experience of probably 200 years and each has been trained and approved to install FDT's Rhepanol system - the membrane chosen for the job.

While in principle Rhepanol fk is relatively easy to install, (it has a factory-manufactured, self-sealing edge), the highest standards of workmanship were required on this high-end residential development. The green pitched roof areas presented the greatest level of technical difficulty to the installers. Visible from every angle, 'perfect' execution of both field area and standing seam detailing was required to meet both regulations and aesthetics to all 71 roofs.

All standing seams needed to run exactly as per the design criteria, and to perfectly replicate a standing seam metal roof finish. Also, challenges such as differing climatic conditions (for example, hot to cold days on site), complex sloped flat interfacing and avoiding marking or stretching the membrane meant that each installer needed to draw fully on both their own experience and skill plus that of the rest of the team.

The scale and scope of the project was such that an oversized insulation board was specified for speed of installation and reduction of wastage. Coordination of quantities and careful timing and scheduling of deliveries were also critical to ensure continuity of work on site.

SAFETY WAS PARAMOUNT

The professionalism of the team and the pains they took to do things correctly is demonstrated by the fact there were no reported accidents while work was carried out. The steps to ensure everyone's safety on site, included:

- Developing, approving and logging method statements across a multitude of scenarios before starting work
- Regular Tool Box Talks
- Qualified supervisors always on site
- Using protection against UV exposure
- Wearing correct PPE including footwear
- Checking 'tagged' access equipment and scaffold to ensure it was correctly installed
- Using the correct tools and equipment in accordance with the manufacturer's instructions

As the development is next to Lymington Town Railway Station the team also took great care to make sure debris didn't fall onto either the track or pedestrians. During SIG Design Technology's regular inspections, compliance against the applicable codes of practice was monitored continually and only trained operatives were permitted to install FDT's Rhepanol fk.

IMPRESSIVE RESULTS

The result of all this hard work is an impressive collection of penthouses and duplexes in a gorgeous and prestigious waterfront location. Managing Director, Julian Rogers had this to say about the experience: *"The project far exceeds the typical flat roofing application and it has given us the opportunity to utilise our expert workmanship to the full in terms of fulfilling both functional and aesthetic demands over what has been a 4-year long programme."*

SIG Design Technology's Trading Director, Mike Crook agrees: *"As sole UK distributor of FDT membranes, I believe this to be probably the most complex project with high impact finished aesthetics that we have seen undertaken using Rhepanol fk."*

The Lymington Shore project was shortlisted in this years UK Roofing Awards for the Flat Roofing Membrane Single Ply category. Well deserved recognition for the work done by FRM on this amazing project!

Overall, this development shows the talent we have in British roofing today. To bring the whole project in on time and to budget meant FRM had to work extremely closely with both enabling and following trades, engage in detailed logistical planning, and provide the workforce with the correct training and supervision. All of which they achieved. And some!

Rhepanol fk

Supplied by SIG Design Technology, FDT's Rhepanol fk membrane met Redrow's requirements on sustainable choices of materials.

Made from Polyisobutylene (PIB), a synthetic rubber, Rhepanol fk is the only membrane currently available with a full Life Cycle Assessment that meets DIN EN ISO 14040 part FF.

This means it has no significant environmental impact at any time between its manufacturer and eventual disposal.

SIG DESIGN TECHNOLOGY

For more information please fill in the reader response card

ENQUIRY 15

Get into the groove

A new formulation for Icopal's Anderson range means it's now 30% faster and uses minimal heat for a safe, quality finish.

The elements that make up a 'quality build' are numerous: from quality products that provide long-term performance, to easier, safer and faster applications that save time and help reduce operating costs - every building component can make a difference, including roof felts.

To give contractors the quality they need, manufacturers are continually looking at how their products can provide better long-term performance and take things to another level. Take the Anderson brand as an example. They have invested significantly in their bitumen technology to make installing the company's Tecnatorch range 30% faster. Not only can you now save time when installing, but the improvements also increase the range's energy efficiency too.

The Tecnatorch membranes use specially developed SBS modified bitumen blends with a grooved torching surface with a thermofusible film on the underside. These grooves increase the surface area of the bitumen and, as the film is only in contact with the peaks of the grooves, need minimal heat to activate the unique adhesive properties of the bitumen and disperse the thermofusible film. This makes it safer to install as well - heat is channelled quickly along the grooves giving a 'forward melt' effect allowing the membranes to be installed up to 30% faster and using 25% less gas - all done while ensuring a 100% secure bond.

The benefits for this roofing system speak for themselves:

- Proven product performance
- Unique groove profile system
- Technically advanced low heat-reactive bitumen
- Exceptional bond strength
- Greater lap security
- Safe low flame application
- Reduced energy consumption
- Easy to handle and apply
- Ideal for use with Total Torch membranes
- FireSmart fire retardant cap sheets available
- BBA approved
- Choice of colours

Not only is Tecnatorch an energy efficient roofing system with mini groove technology, it has a life expectancy of 20 years, providing reassurance for both you, your customer and the environment.

For more information please fill in the reader response card

ENQUIRY 16

Know your metal

STANDARDS & LEGISLATION

BSI's new Standard for the design and manufacture of metal gutters focuses on the strength and structural capability of rainwater products, making it much easier for installers to choose the right material for the job.

Rainwater systems are integral to the protection of buildings, particularly as our climate is becoming warmer, wetter and windier. And, with extreme weather events occurring more regularly, the development of new standards, regulations and testing methods help installers ensure the products and solutions they use are fit for purpose.

The new BSI metal guttering Standard BS 9101:2017 focuses on the strength and structural capability of rainwater systems and covers steel and aluminium rainwater systems specification. It will ensure all metal gutters, regardless of material, meet minimum strength levels and are fit for installation in the UK. As a result contractors will have greater confidence promoting metal rainwater systems and the durability to expect from the products they use.

This is a welcome development, as if you're committed to building a reputation based on trust and quality workmanship you'll recognise the clarity these Standards bring and the benefits they provide. BS 9101:2017 specifies the requirements for the design and manufacture of metal gutters on industrial, commercial and residential buildings. This includes materials, tolerances, mechanical properties, surface conditions, coatings, jointing methods and fixings, including fittings/accessories for assembly/support.

The new Standard also emphasises the design strength of the metal gutter as determined by its loading capabilities of downward rain, wind uplift and snow.

Previously, the industry had referenced a variety of Standards to cover everything from traditional cast systems, pressed or extruded gutters. This meant standards were often still open to interpretation and applied to the material, not the structural strength of the product.

The new BS 9101:2017 is more comprehensive and covers both specific metal sheet and extruded gutters. It raises the bar for metal rainwater projects and is essential for the protection of our buildings.

Manufacturers, like Alumasc, give support and technical advice for specifying and installing metal rainwater gutters. Keep up to date with current Standards and your customers will have peace of mind that your jobs are correctly specified and buildings are protected all year round.

ALUMASC RAINWATER™ GUTTERS AND DOWNPIPES

For more information please fill in the reader response card

ENQUIRY 17

Getting to grips with L2

STANDARDS & LEGISLATION

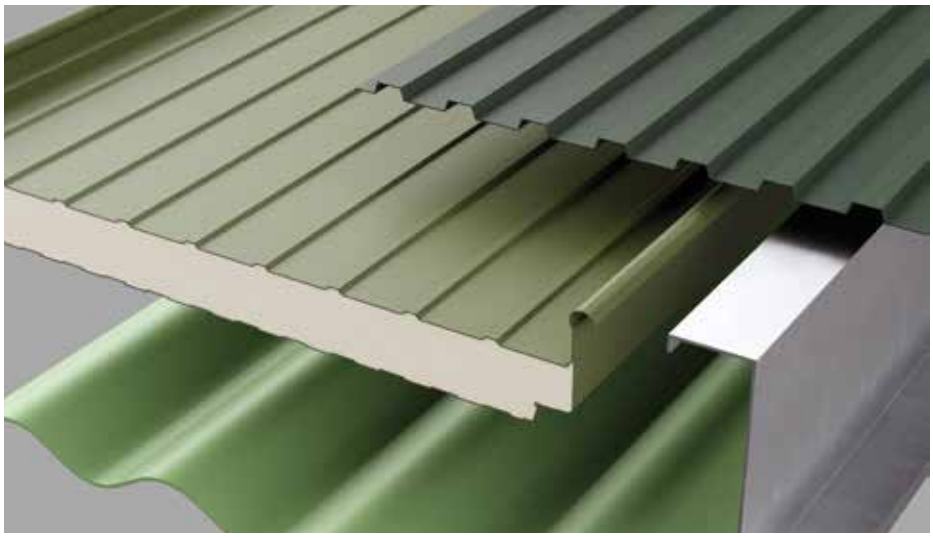
Whether you're working on a renovation or new build, it pays to know when you need to comply with Part L2 of building regulations.

The Building Regulations Part L addresses energy efficiency requirements in buildings and is broken down between:

- Domestic (L1 - dwellings)
- Commercial / industrial (L2 - non dwellings)

L2 building work is dependent on whether its new or existing buildings:

- Part L2A - conservation of fuel and power in new buildings other than dwellings
- Part L2B - conservation of fuel and power in existing buildings other than dwellings.



The L2 Building Regulations came into effect in 2010. To briefly outline the criteria you need to meet to comply with the regulations here's a quick overview on what you should know.

BUILDING WORK

This includes:

- The erection or extension of a building
- The provision of extension of a controlled service or fitting
- The material alteration of a building or a controlled service or fitting

All works must comply with the applicable requirements of the Building Regulations for new build or existing buildings.

MATERIAL CHANGE OF USE

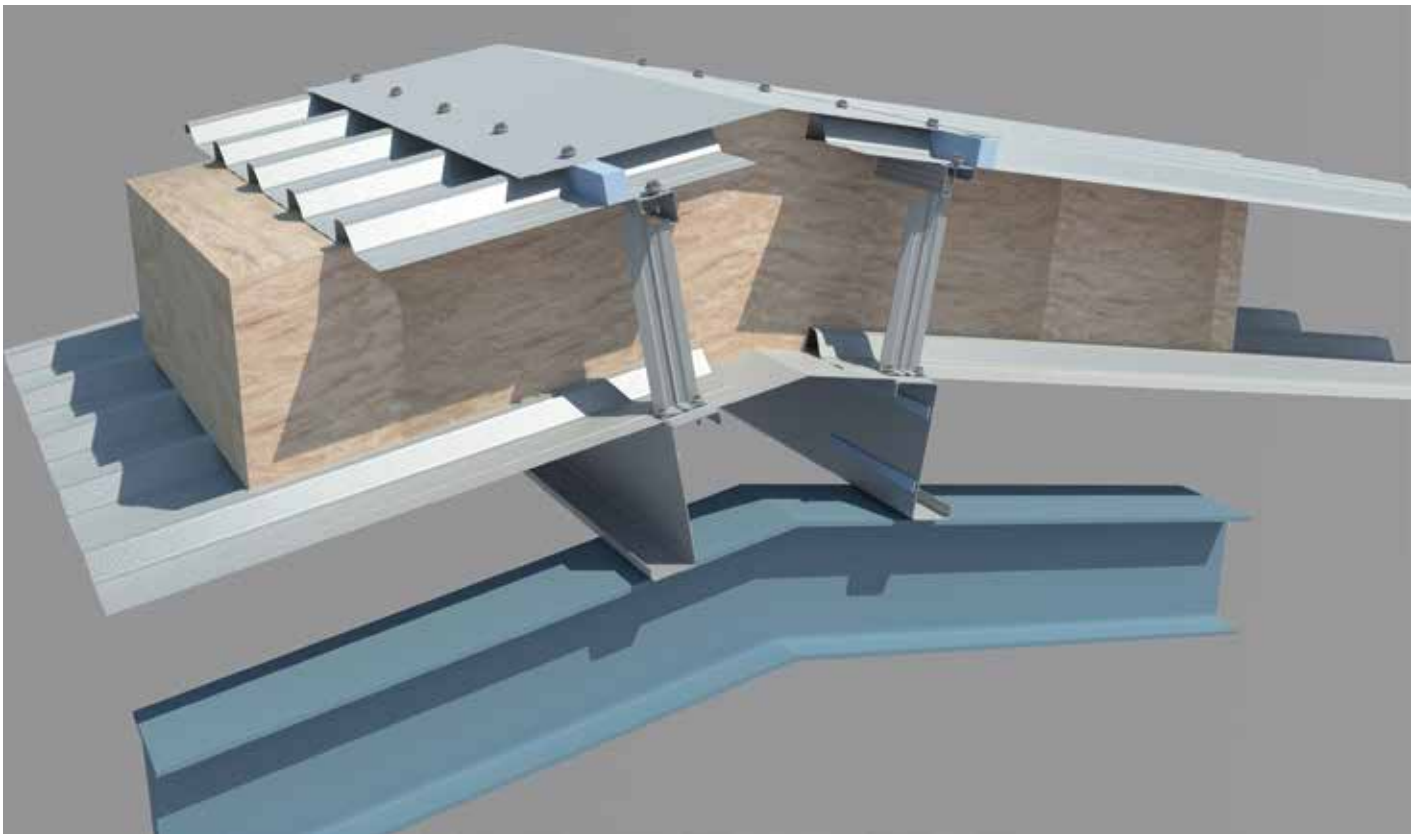
Is defined as a building or part of a building that was previously used for one purpose will be used for another.

MATERIALS AND WORKMANSHIP

Work must be carried out in a workmanlike manner using adequate and proper materials.

ENERGY EFFICIENCY REQUIREMENTS

If a building is extended or renovated, the energy efficiency of the existing building or part of it may need to be upgraded.



WHAT DOES THIS MEAN IN REAL TERMS?

Here are a few situations that the above L2 regulations apply to:

Consequential improvements

If the useful area of any work carried out is greater than 1000m² then you need to make sure the whole building complies and not just the section you are improving.

Material alterations

If you are upgrading existing materials than these should be L2 compliant.

Extensions

The whole building needs to comply if the extension area is 100m² and is greater than 25% of the total floor area of the existing building and if there is an increase in installed heating or cooling elements.

Provision or renovation of a thermal element

Thermal elements should be upgraded as follows:

Walls 0.26 U-value

Roofs 0.18 U-value

If you are looking to re-package a building from its original use, like an old storage warehouse, and turn it into residential or office space then you'll need to bring the building in line with these regulations.

However, you may not have to completely strip the existing roof.

In some cases you may be able to over-clad the existing materials and keep costs down. There are a variety of options to do this, including GRP solutions and metal roofing systems. What you choose really depends on the U-values you are trying to achieve.

An example of this is the Twin Skin System:

Twin skin build up

This system consists of the following components:

Roof

- 0.7mm box profiled sheeting – coating to be determined on life span expected
- Bar and bracket support spacer system
- 240mm glass fibre cladding roll, 040 lambda value
- 0.4mm thick or 0.7mm liner panel, thickness determined if the liner is to be walkable

Wall

- 0.5mm thick box profiled sheeting - coating to be determined on life span required
- Bar and bracket support spacer system
- 180mm glass fibre cladding roll, 040 lambda value
- 0.4mm thick liner panel

There is also a range of composite panels available in the correct core depths to suit any U-value requirements.

Call the SIG Industrial Roofing Centre on 0870 264 7766 and they'll talk you through everything you need to know to identify the correct solution for your project. They are there to give you advice, support and recommend the best product solutions for your next industrial roofing or cladding job - and of course to help you comply with Part L2.

SIG INDUSTRIAL ROOFING

CONTRIBUTORS DIRECTORY

Higher Standards

WIN a valet pack

In this issue of INSIGHT we've covered the various ways you can benefit from industry standards and legislation and you can find some of these terms in our word search:

BUILDING REGULATIONS
CARBONZERO
CERTIFICATION
COMPETENTROOFER
CREDENTIALS
FIT FOR PURPOSE
HEALTH
LEGISLATION
PASSIVHAUS
PROTECTION
REPUTATION
RISK MANAGEMENT
SAFETY
WORKMANSHIP

Simply complete the word search and find the one 'assessment method' which is **NOT** listed above, but **IS** in the word search.

Enter the missing word on the reader response card and post it back to us. So give it a try and solve this 'testing' puzzle!

Good luck!

Closing date to receive entries is 11th August 2017.

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

Congratulations to **Robert Murt** from **The Flat Roofing Company** 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 30th June to 11th August 2017. 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?

ANGLIA

SIG ROOFING

Bedford	MK41 9QG	01234 325283
Colchester	CO2 8JX	01206 877460
Great Yarmouth	NR31 0LY	01493 659991
Ipswich	IP1 5LU	01473 749621
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

BOWLLER ROOFING SUPPLIES

Cambridge	CB22 7QP	01223 872260
High Wycombe	HP12 3RJ	01494 450079
Kings Langley	WD4 8JU	01923 269983

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
Stratford	E15 2RW	020 8536 5400
Tottenham	N17 8HJ	020 8808 6816

UNITED TRADING COMPANY

Chingford	E4 7HZ	020 8559 4334

UNDERCOVER ROOFING SUPPLIES

Rayleigh	SS6 7XF	01268 798 999

BOWLLER ROOFING SUPPLIES

South Harrow	HA2 8AX	0208 426 8838

SCOTLAND

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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

SIG ROOFING

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

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

SOUTH COAST

SIG ROOFING

Bishops Waltham	SO32 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 5LJ	02392 258344

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

SOUTH EAST

GREENJACKETS

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

TYNE AND TEES

SIG ROOFING

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

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

WEST

SIG ROOFING

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
Swindon	SN2 8XA	01793 613339

BOWLLER ROOFING SUPPLIES

Reading	RG30 4BJ	01189 455454

WALES

SIG ROOFING

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

MIDLANDS

SIG ROOFING

Birmingham	B11 2DX	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
Nottingham	NG8 1PQ	01159 285999
Oswestry	SY10 8NN	01691 654551
Stoke	ST4 2NL	01782 280567
Telford	TF1 5ST	01952 641161