

INSIGHT

The **roofing** information service

issue 11

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Page 20

***Green
means simple***

Get the sustainability low-down
from **SIG Design & Technology**

Note from the editor!

Welcome to the eleventh edition of Insight and our first of the 'Noughties', and if, like me, you're a pre 1980's baby boomer then noughties just does not sound right, but hey what do I know?

Staying on the theme of a new decade you'll find that the next 30 or so pages contain some revealing information on the future direction of the construction industry and specifically roofing products, process and initiatives. Including the Government Feed in Tariffs 'FiT' announcement, due as we go to press, will announce cashbacks to consumers supplying clean electricity through PV Solar Solutions amongst others.

We also look at Green Roofs, Living Walls and Tapered insulation solutions helping roofers offer the latest 'green' roofing solutions, many of which will be presented at the forthcoming Ecobuild Show running at Earls Court from 2nd to 4th March.

In the Latest News we hear from the HSE on the success of the 2009 'Ladder Safety Campaign, the 2009 Scottish NFRC Awards, the incredibly fit gang of 'Roofing Racers' and their exploits in the 2009 London Triathlon and the forthcoming 2010 FRA Awards, did you get your entry in on time?

Finally we've brought back the ever popular caption competition, so get your thinking caps on and give us your best one liners and you could be one of three winners of over £100's worth of kit, see page 28.

And we're always looking to include your interesting stories either product, project or just plain daft, send them into editor@insightmag.co.uk.

Stuart Base

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ecobuild

tuesday 02 — thursday 04 march 2010
earls court, london | www.ecobuild.co.uk

'Be part of it'

Register for free at
www.ecobuild.co.uk

ENTER

our caption competition
on page 28 with 3
chances to be a

Winner

GOT ANY NEWS...?

Send us your ideas,
comments and moans
- the best contribution
will receive a bottle of
single malt whiskey!

Cheers!

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Sustainable in Construction

In this issue of Insight magazine you'll see several organisations getting on the band wagon for sustainable construction, but we need to ask ourselves a couple of pretty fundamental questions;

Why do we need sustainable practices and products?

What is sustainable construction?

The Why...

There is ever increasing interest, in both private and public sector customers, to understand sustainable construction practices. This interest is driven by a realisation that sustainable practices make sense to constructors, owners and operators. The practices not only help the environment but can also improve economic profitability and improve relationships with stakeholder groups by;

- Increased profitability using resources more efficiently
- Securing opportunities offered by sustainable products or ways of working
- Enhancing company image and profile in the market place by addressing issues relating to Corporate and Social Responsibility

But you would be wrong to assume that this is only for the big construction firms as we are all consumers and are becoming more aware of the impact we are having on the planet. So whether you're tendering for a public scheme or quoting on an individual residence, sustainability, credentials and practices will be looked upon favourably by the owner/operator.

Sustainable Development

The term Sustainable Development was coined in 1987 as: "...development that meets the needs of the present without compromising the ability of future generations to meet their own needs".

The report in which this statement was penned was significant because it helped trigger a wide range of actions, summits, UN framework agreements and UK specific Sustainability Strategies including;

- 'Strategy for Sustainable Construction'(launched by UK Government)
- Constructing Excellence
- The Sustainability Forum
- Materials Resource Efficiency in Regeneration

To name but a few and this can be a problem. A search on the internet will find thousands of opinions and strategies, so what is sustainable construction?



The What...

To give you the buzz words;

- Corporate Social Responsibility
- Triple-Bottom Line
- Sustainable Communities Plan

Corporate Social Responsibility (CSR) is a key driver for private sector companies seeking to embrace sustainability in their business by integrating CSR behaviour into their core values. Its key principles relate to: Integrity; Transparency; Responsiveness, Fairness and Diversity

**"A business that makes nothing but money is a poor business".
(Henry Ford)**

The concept of Triple-Bottom Line relates to the reporting of environmental and social performance (the environmental and social bottom line) alongside profits (the economic bottom line) as measures of success. The Triple-Bottom line encompasses environmental responsibility, social awareness/responsibility and economic profitability.

The Sustainable Communities Plan sets out major reforms of housing and planning and a new approach to how we build, and what we build, in order to bring about development that meets the economic, social and environmental needs of future generations, as well as succeeding now.

The public sector will be imposing sustainability conditions from 'The Plan' in their forthcoming procurement schemes, and thus sustainability is expected to gain importance in governmental procurement.

But what do you need to do?

The Four R's in action;

Reduce



Replace



Re-use



Recycle



Sustainability in construction is not yet an exact science, therefore some of the solutions offered are not always definitive, but the underpinning principles of Reduce, Replace, Re-use and Recycle are always present in some form or other;

- Keep up-to-date with the latest product innovations.
- Consider the 'cradle to grave' implications of the products you use; natural resources, production costs, transportation, life span, recyclability.
- Let your customers know the steps you've undertaken to achieve a more sustainable business.
- Join a construction scheme to assist you with planning and implementation.
- Consider adapting your business methods with regard to running an office, power usage, wastage and technology.
- Reduce vehicle usage, implement car-sharing, use more efficient models.

- Maintain equipment.
- Have procedures for dealing with site waste.

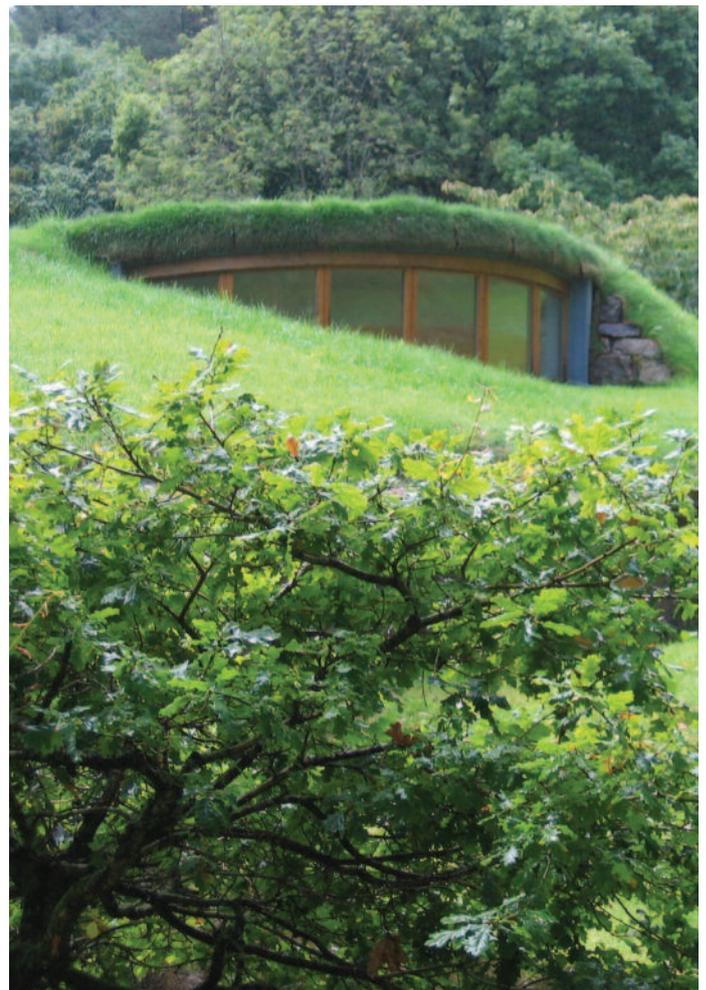
But what benefits will you see if you adopt the above practices...

More and more construction projects in the public sector require firms to have sustainability plans or commitments. Whilst this may seem daunting for some, a common sense step-by-step approach can quickly identify the best tools, products and procedures to suit your business.

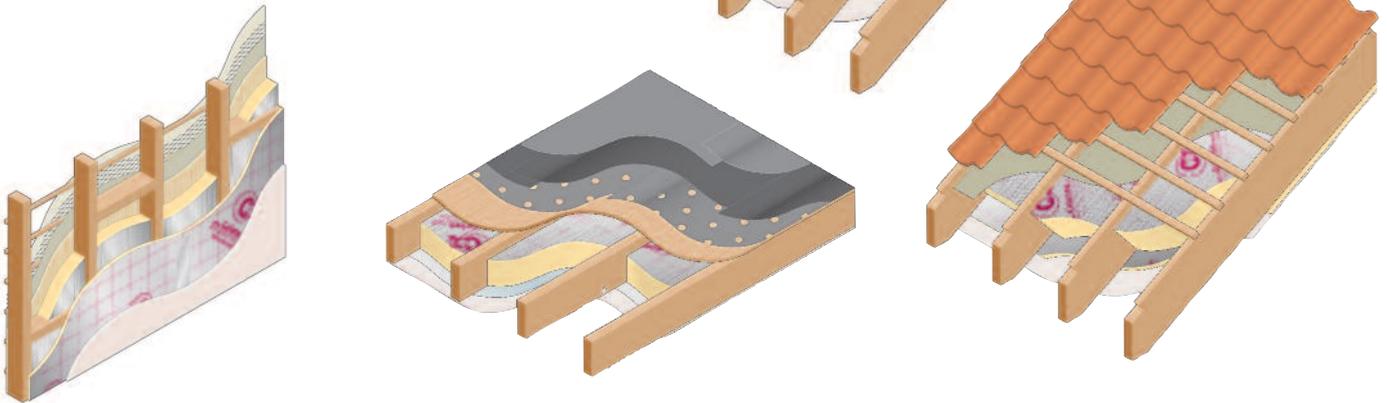
But consider the opportunities, in a local community, sustainability planning grapples with;

- Housing shortages
- Decent Homes
- Abandonment
- Liveability
- Protecting the countryside

There has to be opportunities for all to benefit if we understand the issues and take steps to change our business focus. In the next issues of Insight we'll cover Sustainability Practices to 'cradle to grave' products and what it means for constructors, customers and the environment.



Thinnest to Thickest



Sustainability and reducing carbon footprints is now one of the hottest topics both globally and within the UK construction industry. The UK has an ultimate goal of reducing its CO₂ emissions by 80% by 2050.

Given that our homes and buildings (including the manufacture of materials used to build them) equate to over 50% of the UK's total CO₂ emissions, there is much pressure on the construction industry to play its part, with 2016 set as the year when all new homes must be built to a zero carbon standard.

Achieving zero carbon relies heavily on ensuring the building fabric is well insulated to reduce the amount of energy required for heating and cooling a home. Celotex can help achieve this with its expansive range of insulation boards, clearly the best solution towards reducing carbon emission from homes, buildings and offices.

A+

Celotex are the only PIR insulation company to have had products independently assessed and uniquely rewarded with an A+ rating in the 2008 BRE Green Guide to specification. These credentials demonstrate that Celotex is the most sustainable PIR product solution available today for the construction industry.

Thinnest to Thickest

Celotex is the only manufacturer who supply PIR insulation boards from 12mm to 200mm, quite simply the 'Thinnest to Thickest' insulation range available.

With some developers and builders currently using two boards to achieve increased thickness of insulation, Celotex' XR3000 200mm board enables builders to achieve high levels of insulation in one product – offering cost and time savings, whilst reducing the amount of material that needs to be stored on site. The 200mm product is available in one 1200mm x 2400mm board size and is aimed at cut to fit applications between rafters and joists and also for floors.

As well as the 'Thickest' insulation, Celotex also offers the 'thinnest' PIR insulation board available. Starting at just 12mm thick, the TB3000 range of boards is designed to provide simple solutions to overcome localised thermal bridges. Celotex is unique in being able to offer boards at this size to the market for this purpose.

Board it up

Another high performance product from Celotex is PL3000. This product offers an insulation board bonded to 12.5mm tapered

edge plasterboard, that is suitable for direct bonding and mechanical fixing, making selection straightforward. And with its tapered edge, the board edges only need to be sealed before final decorating takes place, saving time and reducing associated labour costs of the complete skimming that is required on flush-fitting boards.

PL3000 is the ideal product for use within flat or pitched roof, 'between and under' applications, as well as in internal dry lining applications. It can be used in new build applications as well as providing the perfect solution for upgrading older buildings where little or no insulation exists.

Not only is Celotex the brand leader in PIR insulation but it also offers a wealth of experience to its customers. Staffed by experienced construction specialists, the Celotex Technical Centre has earned an excellent reputation for its comprehensive levels of personal assistance and technical support.

Celotex and its expansive range of products is the ideal solution in the aid of reducing carbon emissions and lowering the overall emissions from homes, buildings and offices.



Celotex

Green means simple!



Get the sustainability low-down from SIG Design & Technology

Green building technology is all the rage, especially with architects experimenting with new technology and corporate and public sector clients showing off their commitment to the environment. When it comes to turning plans into reality, the client still needs a guiding hand to find the green products that do what they say on the tin.

SIG Design & Technology gives you the practical low-down on its range of green building products to help you steer your customers in the right direction and to give you a competitive edge as the roofing contractor in the know.

SIG's Modular Green Roof System

SIG's modular system has been developed specifically for large roofing areas. Made up of 1m² module trays, the substrate

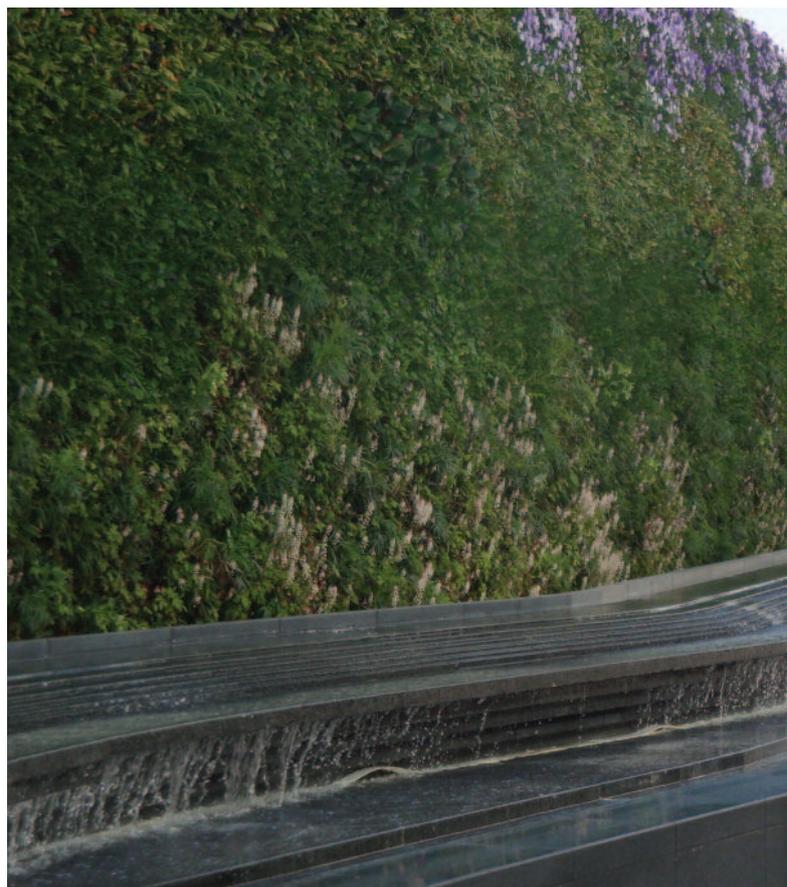
consists of egg-box shaped cells which overlap and slot together to provide a seamless finish and provide plant drainage. The planting usually comprises sedum or a mix of sedum and wildflowers.

The module trays are pre-grown over a nine-month period and supplied as fully-established units in order to make sure the plants are strong, robust and well anchored into the medium. Strong plants mean less shock, less risk of wind uplift or erosion in those first few critical months after installation.

The modules are installed over a geotextile filter fabric, which sits on top of the waterproofing. The weight of the system and the clever interlocking cells mean no fixings are required for the modules, so the membrane stays watertight.

Banish dull concrete - carpet the walls in green

Gone are the days of ugly concrete walls with the launch of the living walls system – a practical, easy-to-install and easy to manage



vertical planting module for the sides of buildings.

SIG's Living Wall System, used to soften the look of London's new Westfield Shopping Centre (pictured), is a ready-to-go modular system with built-in watering and drainage. The modules come ready supplied, the vertical planting provides year-round greenery and obvious eco creds to a building.

The system can be attached to a wall or vertical structure, each cell is angled and has water flowing through to a water retention fleece. This built-in irrigation system makes sure the plants are looked after day-in, day-out. Each module is hand planted, so every living wall can be unique to the building it adorns – you can even grow your own lettuce!

Perfect match

More than 95 million square metres of Rhepanol fk® have been installed on roofs all over the world. Its eco-credentials, Gripfix system and self-sealing edge make it truly unique. Rhepanol fk® is made of more than 70% natural materials and has achieved the highest ecological standard of any single-ply roofing membrane on the market.

Now SIG Design & Technology has launched its own exclusive Pro20® liquid waterproofing that can be combined with Rhepanol® for even more flexibility. Spray-applied, Pro20® can be used for those hard to reach areas such as intricate detailing and (as no naked flame is used) where health and safety concerns are paramount. Both products are 100% compatible and the Pro20® top coat has been colour matched

News in brief

Are you at the top of your game?

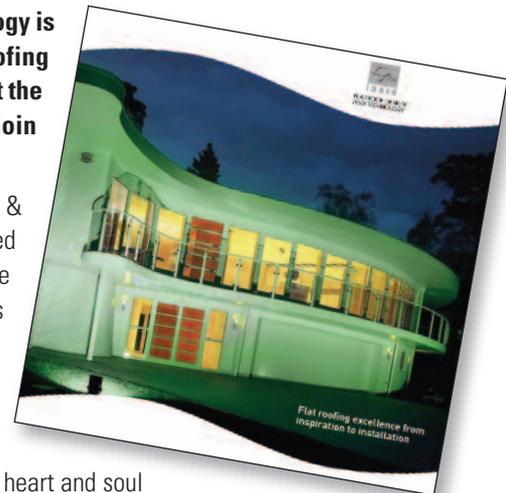
SIG Design & Technology is looking for roofing contractors who are at the top of their game to join their premier league.

The SIG Design & Technology Accredited Contractor scheme (DATAC) recognises contractors who have an exceptional knowledge of roofing systems, have a proven record of installation and put their heart and soul into their businesses.

DATAC membership is a badge of approval that can be used for tendering and exclusive access to Design & Technology products. Only DATAC contractors can be referred to clients to install roofing systems designed, supplied and guaranteed by SIG. They also receive previews on new products and access to fast-track training in new techniques.

DATAC members receive a three-year licence and there are five different levels within the league, so whether you're one of the big players or a one-man band, there's room at the top for you.

More information on DATAC or to apply, SIG Design & Technology visit www.accreditedcontractors.co.uk or complete the reader response card.



“ More than 95 million square metres of Rhepanol[®] have been installed on roofs all over the world. ”

to the grey of Rhepanol[®] so to the untrained eye, they are indistinguishable.

Tried, tested and guaranteed by SIG Design & Technology, the combo offers a really efficient and easy green solution for contractors.

And now Rhepanol's[®] available in white...

...as a special application for solar panelled roofs. And because it's white, it maximises solar reflection back into solar panels even from underneath, increasing efficiency by as much as up to 30%.

The membrane's permanently resistant to UV radiation and has an anti-slip underlay for photovoltaic systems. Free from halogen and plasticizers, Rhepanol's[®] compatible with bitumen too. That means you can lay the new membrane over the old and save a bob or two in time and energy.

SIG Design & Technology supplies a PV system designed especially for flat roofs on commercial and industrial buildings. SOLYNDRA[®] PV is made up of tubes sheathed in copper - indium - gallium - diselenide (CIGS) solar cells – one of the most efficient on the market. And the tubes make the most of every bit of sunlight, whether it's cloudy, dusk, dawn or blazing sunshine.

SIG Design & Technology here to help

As the largest supplier of exterior roofing products, SIG work hand-in-hand with roofing contractors to design roofs.

SIG supply all the right materials, monitor the job and what's more, offer an exclusive SIG guarantee on the Design & Technology system and materials.

Big Brother's star builder 'stepped up' to promote ladder safety



Craig Phillips, celebrity builders steps up to launch ladder exchange 2009 with the exchange partners

From September through to the end of December 2009, the construction entrepreneur and winner of the first series of the reality show, Craig Phillips, gave his support to the Health and Safety Executive's (HSE) ladder safety campaign.

The campaign centred around a 'ladder exchange' which gave contractors the opportunity to get rid of old, damaged and broken ladders and trade them for new ones.

Craig, currently on ITV1's 60 Minute Makeover is well aware health and safety at every level is important, he said "To be a winner in the construction industry you have to take health and safety seriously.

"If you take a chance with dodgy ladders you are risking your life. Every month over 100 people fall off a ladder at work and suffer serious injuries. So many of these accidents are avoidable and having safe equipment makes a huge difference. That's why I think the ladder exchange was such a great idea."

Over 5000 ladders have been exchanged under this scheme since it first launched in 2007.

At the launch Craig commented that "It is great that my home city of Liverpool has been chosen as the venue to launch this national campaign. I hope companies not just here, but in every city and town in the UK will be able to trade in old ladders for new safer ones."

In 2007/08, a total of 58 workers died and over 3600 employees suffered major injury as a result of a fall from height in the workplace. Many of these incidents could be avoided by using the right equipment and taking simple precautions. HSE is working in close partnership with industry to ensure that anyone involved in working at height uses the right equipment for the job and uses it safely.

Peter Brown, HSE Head of Work Environment, Radiation and Gas Division said:

"Businesses will get the chance to get their ladders checked and, where necessary, trade them in for new ones at a heavily discounted price. HSE is working with Local Authorities, ladder manufacturers and retailers to address the safety issues around access equipment with employers and ladder users."

"We want anyone working at height to use the right ladder for the job and to use it safely. Ladder Exchange is the perfect opportunity for businesses to assess the risks involved in using ladders and to adopt sensible health and safety measures."

The ladder exchange programme is one part of HSE's ongoing Shattered Lives campaign which aims to reduce the number of fatal and major injuries each year that result from falling from a height.

Don Aers, Chairman of the Ladder Association said:

"Over two million people work on ladders daily in the UK and we want all of those workers to work safely. We enthusiastically support the

YOUNGMAN

INNOVATIVE WORK AT HEIGHT SOLUTIONS

Ladder Exchange because it's an initiative, alongside training, that can really make a difference."

When it comes to ladder safety, always ask yourself three simple questions:

- **Do you need a ladder or should you use something different?**
- **Is it the right ladder?**
- **Are you using the ladder safely?**

The exchange discounted up to 50% off ladders with any of the partner retail outlets, including ABRU and Youngman Group.

"Youngman are committed to working in partnership with the HSE and our customers to reduce injury rates from falls from height in the workplace. The Youngman brand has come to represent a guarantee of quality and value. All products manufactured and supplied by Youngman Group Ltd are the result of a commitment to the highest standards of engineering and a dedication to design improvement"

ABRU



Ladder exchange

ABRU are committed to promoting the safe use of ladders and were delighted to get involved in the recent HSE Ladder Exchange to banish dodgy ladders from the workplace.

This HSE initiative is now an annual event and enables ladder users to exchange their old damaged ladders for discounted safe new ones. As the UK's leading supplier, ABRU fully supported the exchange and is delighted to work with distributors to collect and dispose of the returned products.

It is essential that any ladder used in the workplace is fit for purpose. As a British manufacturer ABRU are proud to supply high quality access equipment which is fully certified to all applicable British or European Standards and manufactured in an ISO 9001 approved factory. Buying British also means that distributors and end users can benefit from ABRU's high quality after sales service.

Don't let a dodgy ladder shatter your life.

Icopal – The ultimate

The company offers roofing professionals the ultimate one-stop shop – the country's most complete range of proven construction membranes, support services and insurance-backed guarantees.

At present, Icopal has 37 production sites using state-of-the-art production technology and 95 offices with committed teams holding unique track records in innovation and customer satisfaction. The company also has a strong environmental profile, with recycling and minimising the use of raw materials and energy as a key priority in the development and production of roofing and waterproofing solutions.

Icopal has successfully merged key acquisitions including Callenders, Anderson and Monarflex into one while retaining the strengths and individuality of these popular and well-respected brands. Working with professionals across the construction industry to identify requirements and propose waterproofing solutions, the company then finds innovative and sometimes unique solutions that are technologically advanced, practical and environmentally friendly.

These include:

Tecnatorch energy-efficient groove technology – used on the underside of the product, profiled grooves within the bitumen increase surface area and

channel the heat during application, saving up to 25% less gas and cutting down installation time.

FireSmart technology – the first flat roofing membrane system approved by the Loss Prevention Certification Board (LPCB) which exceeds the highest fire standards by creating an endothermic reaction within the membrane when in contact with fire which carbonises the membrane and prevents the bitumen from melting and spreading the fire.

Flame-free application technology – suitable for installing SBS bitumen membranes and drying off damp roof surfaces without the need for roofing torches.

Total Torch system and Torch safe systems – which save contractors time and energy costs while protecting combustible surfaces from naked flames. In-built vapour dispersion and striped resin technology allows full torch application including the insulation layer without the use of hot bitumen.

The latest product innovation is "SYNTAN" which replaces sand within the production of reinforced bitumen membranes and gives the products a completely different visual effect as well as enhancing the capabilities of the waterproofing. Syntan is the ideal surface to accept cold-applied adhesives and self-adhesive membranes which will surely be

the future of bitumen waterproofing.

Cold-applied Elastoflex – seamless, reinforced liquid waterproofing system completes a proud and very technically astute product range for flat roofing application, to name but a few.

Pitched Roofing

Monarflex is synonymous with quality and Monarperm breather membranes, along with Monarflex vapour control layers, continue to lead the market with the latest generation of high-performance breathable membrane solutions for warm and cold non-ventilated pitched roofs.

Products such as Icopal's green

So confident is the company in its products that it offers a range of insurance backed guarantees up to 20 years although some of its roofing felts have been known to last almost 100 years - historians at West Sussex's Weald and Downland Open Air Museum discovering an almost perfect installation of some original Anderson roofing felts, complete with the company's old red hand logo, dating back to 1909.

The discovery was made as part of the museum's work to dismantle and re-build the historic St Margaret's Church in South Wonston, Hampshire.

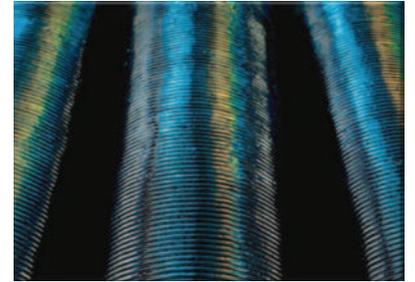
Julian Bell, Curator at Weald and Downland Museum, said: "The felting was in remarkably good condition considering that it was nearly 100 years old and around 75% of it was still almost perfectly preserved in its original sheets."

Unfortunately the roofing felt will not be re-used as it degraded in quality during the dismantling process although the Icopal group has since unveiled the first 100% bitumen recycling facility.

The Icopal bitumen recycling process, which has been accredited by the EU's Life Programme as the most sustainable process in its industry, is expected to process an initial 12,000 tonnes of industrial bitumen in the first phase and will initially contribute around 20% of recycled bitumen into each newly manufactured roofing membrane. The plant is designed to upscale capacity in the coming years to more than 50,000 tonnes of high-quality roof bitumen waste per annum.

Using one square metre of the recycled material in the first-generation products will be equivalent to saving the CO₂ emissions of an average car travelling one kilometre.

one-stop roofing shop



roof systems including the new generation modular EasyGreen tray system has recently won an industry innovation award.

Peace of mind

The majority of Icopal's product ranges are independently accredited by third parties including the BBA, BRE and IAB.

Contractors have responded well to the strategy because they see the value in playing more of a consultancy role and advising on Icopal products that take the meaning of "green" roofs to a different dimension - roofs that are intelligent, capable of harvesting rainwater, producing energy, reducing airborne dust or potentially growing crops.

Icopal reinforces its insurance backed product guarantees with workmanship provided by national coverage from its approved Installer list. These Team Icopal contractors are trained at one of Icopal's three training centres throughout the UK by Icopal's team of quality inspectors to ensure the highest possible standards continue to be met.

Specifiers and contractors can access advice on those design details - from the production of bespoke specifications to the completion of detailed design drawings - through Icopal's market-leading technical support department either on site or over the phone.



Proven Icopal construction membranes, support services and insurance backed guarantees – the ultimate one-stop shop.

For more information on the Icopal product range, please complete the reader enquiry form and post it back to us.



Natural Slate, the natural option

Slate is a fine-grained, metamorphic stone that can be split into thin slabs or slates. It is waterproof, fireproof, resistant to weather extremes, impervious to fungus and / or mould, energy efficient and requires little or no maintenance.

So there's no doubting that natural slate tiles offer both beauty and durability, but today's sustainable-conscious home owners are also seeking assurance their design decisions have a minimal impact on the environment and their carbon footprint. Determining slates' "green" credibility can appear to be a grey area; but slate roofing offers a number of environmental advantages despite being an 'extracted' natural resource.

Sustainable products must meet a broad range of requirements – from durability to external environmental impacts. Roofers considering slate need to weigh up the performance benefits against some not-so-green drawbacks to decide which roofing product makes the most environmental sense.

Slate is incredibly durable, a best quality slate lasts anything up to

several hundred years, and certainly longer than the 30 - 50 years concrete or clay tiles typically offer.

However, sustainability also considers the processes involved in producing and transporting building products. This means slates' desirability may be influenced by the distance of its original quarry from the building site. Slate is heavy, so transporting it takes more energy; so you should consider using slate that are sourced near to you, or are transported in such bulk that better efficiencies are achieved. Some of the best slates are from UK and Spanish quarries, minimising transportation from quarry to site.

Every quarry aims to produce the highest possible proportion of best quality slates, with the lower grade slates more keenly priced. However it is important to note that any potential savings made from using lower grade slates may be offset by a number of factors:

- Increased time and labour charges involved in additional sorting and grading.
- Lower graded stone has the likelihood of considerably more wastage.
- Lower grade slates can have more impurities. These are usually iron based, which eventually rust, making higher quality slate cost effective long-term.



Environmentally aware customers must also consider how the products they use are manufactured. For example, quarrying could result in silting of surrounding waterways if quarries fail to prevent material runoff. However, the cost of the extraction process is so high that quarries typically work very hard to minimize run-off related waste, minimising blasting and using diamond wire and saws to extract the stone.

Unlike mining operations, which dig through earth to reach desired mineral deposits, most slate companies look for exposed stone before operations begin. Also, slate quarries tend to be relatively small affairs — often only a few acres — so they don't impose the kind of broad environmental damage that large strip-mining operations can create. If you select a slate from a reputable supplier, then you can usually find out about the manufacturer operation, quality of material and desired finish to match your design or existing roof.

Slate offers durability, minimal maintenance, if fitted correctly, and a beautiful solution to residential and commercial projects which in all likelihood will long out last the present owner



and become a legacy to admire for years to come.

A new SIGA brochure and microsite have been launched to provide clarity in the market place with a range of slates identified by quality, region and individual slate characteristics. As well as product ranges, you'll also find information on minimum and maximum headlaps, roof pitch, fixing and holing and batten gauges.

To ensure you can make an informed decision, the SIGA slate range has full traceability, are independently tested and meet minimum BS EN 12324:2004 standards.



Please complete the reader response card for more information.



NFRC Awards 2010

Your Time to Shine



The winners will be announced at the Annual Congress taking place on Friday 14th May 2010 at the Novotel London West in Hammersmith. NFRC is proud to be working with the following associations:

- **Flat Roofing Alliance**
- **European Liquid Waterproofing Association**
- **Single Ply Roofing Association**
- **Lead Contractors Association**
- **The Green Roof Centre**
- **Groundwork Sheffield**

NFRC will, this year, be strongly supported by SIG Roofing and partnered by B&CE, ConstructionSkills, Yellow Pages, Electrical Contractors Insurance Company and Roofing magazine.

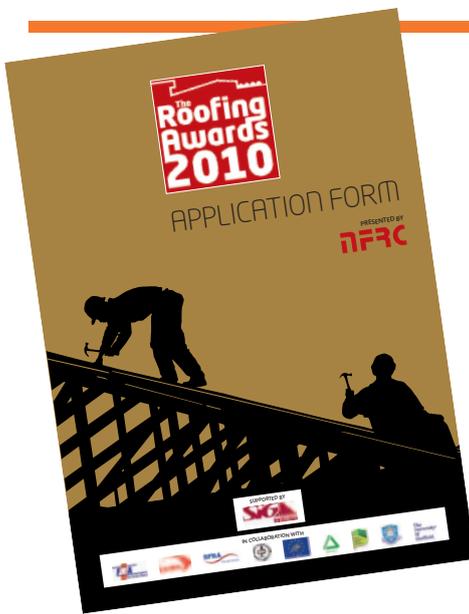
Sponsors confirmed so far for the event are: Redland Monier, John Brash & Co, Permanite Engineered Roofing Systems, SFS intec, QANW, Marley Eternit, Icopal and Fakro. For details on sponsorship of this event please contact Debbie Simcock on 0207 448 3186 or email debbie@nfrc.co.uk.



If you're not a member of the NFRC then visit our website to see the benefits enjoyed by your fellow roofing contractors.

"I think that the NFRC Roofing Awards are a celebration of what's best in the British Roofing Industry and am always delighted to participate in them and to compete with some of the top Contractors in the Country, whether large or small. Furthermore, the Annual Congress and Awards Ceremony is always an event not to be missed!"

Karl Terry, Karl Terry Roofing Contractors Ltd, Kent



The Roofing Awards 2010 are now well underway. Presented and organised by NFRC the awards aim to recognise and reward outstanding standards of workmanship among competent roofing companies. Members of NFRC, and supporting trade associations were invited to enter these awards to showcase projects that they are particularly proud of with the chance of winning this prestigious industry award.

The award categories are as follows;

- **Roof Slating**
- **Roof Tiling**
- **Roof Sheeting**
- **Vertical Cladding**
- **Fully Supported Metal Roofing**
- **Reinforced Bituminous Membrane**
- **Single Ply**
- **Mastic Asphalt**
- **Waterproof Coatings/Liquid Applied**
- **Sustainable Roof (including Green Roofs, Solar, Shingles)**
- **Heritage Roofing**

Scottish Roofing Reaches New Heights



The Scottish Region NFRC is pleased to announce the winners of its Annual Awards Ceremony, the 33rd Scottish Region, 2009 Scottish Roofing Contractor of the Year Awards. Roofing contractors were invited to submit their entries in the first half of this year and following the judges final decisions, the Scottish NFRC has now announced the winners at a prestigious awards ceremony presented by Alex Neil MSP (Minister for Housing & Communities) at the Marriott Hotel, Glasgow.



Having received a high number of entries of exceptional quality, diversity and credibility, the Scottish NFRC alongside its distinguished panel of judges compiling of leading figures from the construction industry, gave up their time to voluntarily provide independent decisions on the finalists.

Formed in 1892, the NFRC is the recognised trade association for the roofing industry supporting hundreds of companies throughout the UK. Committed to raising the awareness and standards of workmanship, quality and excellence for all roofing works throughout the UK, the NFRC provides the small roofing contractor with increased credibility and recognition, greater visibility, training advice, sales leads, warranty schemes and technical information – encompassed by extremely high technical craftsmanship throughout the industry.

"I have been fortunate to be a judge for the NFRC's Scottish Roofing Awards and I have to be honest with you, when I first started I thought I was familiar with roof construction

and the value it adds to real high performing buildings. I was mistaken, the skill and expertise that sits in this sector is amazing!" said the Chairman of the judges Mr. Ronnie Forsyth – Member of the Regional Committee of the National Federation of Roofing Contractors in Scotland.

The Scottish NFRC's Roofing Contractor of the Year Awards have been made possible through the support and sponsorship of SIG Roofing. *"We are delighted to be fully involved with the NFRC's Scottish Roofing Awards"* said Stuart Base, Marketing Manager, SIG Roofing *"The NFRC provides much more than awards scheme for its members as it continues to promote quality and excellence within roofing."*

WINNERS;

Pitched Slating & Tiling Systems

Bain & Irvine Ltd

Heritage Roofing

Southwest Roofing Services Ltd

Flat Roofing Services

George Broly & Co (Roofing) Ltd

Roof, Wall & Façade Systems

Lakesmere Ltd

Active Roofs

Advanced Roofing Systems Ltd

Safety, Health & Environment

Lakesmere Ltd

Supply Chain Partner of the Year

Liquid Plastics Ltd

Services to the Community Award

Weatherproofing Advisors

Service to the Scottish Roofing Industry

Ronnie Forsyth



A special award was presented to Ronnie Forsyth for Service to the Roofing Industry. Mr Forsyth has dedicated years of unpaid service to the roofing industry. He was the regional director for Scotland for Marley Contract Services but also dedicated years of voluntary service to the interests of the roofing industry.

Mr Forsyth was chairman of the NFRC Scottish Region from 1988 to 1991 and

remains an active member of the Regional Committee. He also chaired the NFRC Health and Safety Committee from 1995-2001 and been active in a number of other committees. The judging panels were chaired by Ronnie Forsyth of the NFRC Scottish Region. The panel comprised Ron Jamieson MBE, Iain Robertson and Douglas Fergus.

EcoTherm Combines Foil and Taper in PIR Roof Insulation



Benefits of aluminium foil-faced polyisocyanurate (PIR) insulation and cut to falls board are combined in the new EcoFix Tapered Board from leading thermal insulation manufacturer, EcoTherm. Designed for use with mechanically fixed single-ply waterproof membranes, new EcoFix Tapered enhances EcoTherm's range of minimum weight, maximum insulation products for roofs of many types. Tapered boards are specified for flat roofs to improve drainage, preventing deterioration of the waterproofing membrane.

EcoFix Tapered Board has all the benefits of regular EcoFix – an environment friendly board with zero ozone depletion potential, a lightweight PIR core with aluminium foil on both faces, and performance that meets the thermal requirements of all UK Building Regulations. At 120mm thick, EcoFix Tapered Board has an R-value of 5.22 m²K/W and a U-value on metal and concrete decks of 0.18W/m²K.

Tapered or cut to falls insulation board is a highly efficient solution for creating better slopes on 'flat' roofs to minimise the problem of water ponding on the surface, which may lead to rapid deterioration of the waterproofing membrane and add additional weight to the structure. Tapered insulation insulates and provides the necessary falls by one

trade, minimising the number of trades on site making it ideal for 'fast-track' construction.

BI Director Stuart Hepburn says: "EcoFix Tapered is an important addition to our product portfolio; we see this solution forming the basis of a large number of future projects."

EcoTherm Marketing Manager Dale Kaszycki says: "EcoFix Tapered Board is ideal for installation in new roofs and for retrofitting on existing decks. Its extremely light weight places no significant load on the roof structure, so it can be used over any substrate from concrete to lightweight timber or metal decking. It is designed for quick and easy installation with high performance, single layer, mechanically fixed waterproofing membranes – typically PVC, EDPM or other non-bituminous material." EcoFix insulation is tough enough to withstand occasional maintenance foot traffic.

EcoFix Tapered Board is supplied in sheets 1,200mm x 1,200mm and is available with 1:60 or 1:80 falls.



For more information, complete the reader enquiry form.

 **EcoTherm**®

The Ultimate One Stop Supply



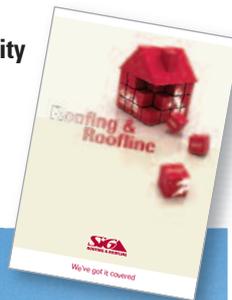
In an effort to drive clarity of supply and extend the right product portfolio to both the roofing and roofline markets, SIG have joined the merchant and supply elements of both SIG Roofing and SIG Roofline to form a new business SIG Roofing & Roofline.

Through this combination, SIG is in a position to offer the most comprehensive product portfolio for both roofing contractors and roofline installers on a truly national basis.

With over 200 branches ranging from Inverness to the depths of the South West, the SIG

Roofing & Roofline offer is based around:

- **working with key manufacturers as strategic partners**
- **providing innovation into the market place**
- **provision of technical support and knowledge**
- **ensuring continuity of supply**
- **local market intelligence**



SIG believe that the role of the roofing contractor and specialist roofline installer are very much interlinked with roofline installers requiring roofing products to ensure that "the job is made good" and roofing contractors requiring roofline products to finish off major roofing projects.

The Role of SIG Roofing & Roofline is:

- **to provide credit terms to sub contractors**
- **manage and break bulk for manufacturers**
- **provide immediate availability of product close to the site location**
- **offer the most extensive delivery fleet in the industry**
- **provide technical advice and product expertise**
- **enable contractors to maximise efficient use of labour**
- **launch innovation into the market place**

Commenting on the merger Philip Johns, Managing Director of SIG Roofing & Roofline said "We believe that the combination of these two businesses will further strengthen our position within the market place, through the ability to offer customers the right products and solutions, advice and support from a truly dedicated and focused team."



Build tight, ventilate right

According to the Energy Saving Trust's Chief Executive Philip Sellwood, almost a third of new homes are still failing to meet energy efficiency guidelines. He told the BBC "... the Government's 'Code for Sustainable Homes' is not being adequately enforced, giving cause for real concern. Our building regulations in the UK are among the toughest in Europe, but they are extremely poorly enforced as far as energy efficiency goes".

David Arendell, Managing Director of roofing specialist Klober, feels the situation in respect of building air tightness gives grounds for even greater concern. He commented, "Despite the fact that the phrase 'Build tight, ventilate right' has become synonymous with the strategy to construct low energy buildings, awareness of how best to achieve airtight construction remains poor. Failing to achieve the right balance between air tightness and controlled ventilation increases the risk of condensation within the roof space. With every upgrade in insulation standards, the risk increases".

The requirement already exists for new public sector housing to meet CSH 3 and the move towards 'zero carbon' will be highlighted when the equivalent of

CSH 3 is incorporated into Building Regulations for England and Wales (similar improvements are planned in Scotland).

The right balance between air tightness and ventilation can be struck without significant addition to building costs. Material choice, however, can greatly influence long-term air tightness. Sheet membrane air barriers coupled with sealants, for example, are more effective than sealants alone, counteracting the effects of buildings (particularly timber frame) drying out. Accredited Construction Details (ACDs), Enhanced Construction Details (ECDs) and, in Scotland, the Scottish Ecological Design Association Guide are now available for both warm and cold roof construction.

Despite the absence of any CSH equivalent for non-residential construction, air tightness can be important in relation to use of roofing materials such as zinc (if the metal's underside is unventilated). Abergwyntfi primary school near Neath was designed to achieve a BREEAM 'Excellent' rating, with zinc used on a series of circular classroom roofs. Klober Wallint air barrier was installed with compatible sealing tape to meet the specified air tightness.

Klober's newly certified CPD presentation, 'The Code for Sustainable Homes and air tightness in roofs', examines how best to 'build tight and ventilate right' within the realms of practical pitched roofing construction. It explains the

contribution of air tightness within the nine categories of Code assessment, together with the role of air barriers and vapour control layers (AVCLs) and vapour permeable roofing underlays. Principles of air tightness, air leakage paths and Building Regulation variations are examined together with factors such as Dwelling and Target Emission Rates and environmental impact of materials.

For more information complete the reader enquiry form.

Klober takes control of air leakage

Klober's new brochure 'Taking control of air leakage' gives a valuable insight into how to make roofs airtight while providing effective, controlled ventilation.

It covers;

- The Code for Sustainable Homes
- The building fabric air permeability to the requirements of Building Regulations and BREEAM
- Wall/ceiling junction illustrating how to provide well sealed ceilings
- The contribution made by vapour permeable membranes, vapour control layers and air barriers as an effective air tightness strategy.

Managing Director David Arendell commented, "Energy and CO₂ emissions are now key considerations for any builder. With the need to improve the performance of both new homes and commercial buildings, air leakage can only become a more significant consideration as we move towards deadlines for zero carbon construction".

For more information, complete the reader enquiry form.



ENQUIRY
5



ENQUIRY
6



'Roofing Racers' London Triathlon

A team of 'Roofing Racers' lived up to its name by dashing round the London Triathlon in London's Docklands to raise much needed funds for Macmillan Cancer Support. The 67-strong team sped round the three leg event and raised more than £35,000 for the charity for a second year running last Summer.

With a real "roofing" industry focus, team 'Roofing Racers' comprised of contractors, manufacturers, trade associations, trade press and distributors all working together to raise money and complete the London Triathlon, an event which challenges even the most athletic

contenders; more than 13,000 entrants have to complete a 750 metre swim in the Thames, 20 kilometers of hard cycling and a final 5 kilometer run to the finish line.

This year's squad was stronger than ever thanks to the level of training undertaken by the team, and their hard work certainly paid off. Roofing Racer's fastest competitor was Neil Harrison of Briggs Amasco, who crossed the finish line in an astonishing 1 hour and 20 minutes.

And as for 'Roofing Racers' Team Relay competitors, the Polyroof team comprising of Emma Evans, Carl Millington and Steve Henshaw raced over the finish line in 1 hour and 19 minutes. They were followed 3 minutes later by David Giles, Dave King and Joe Higgins of Prater. The third team to cross the finish line after 1 hour and 23 minutes was Avonside consisting of Ken Houston, Anthony Burke and Keith Kershaw.

"Successfully completing the London Triathlon is

no mean feat for even the fittest professional, so I know I speak for every member of 'Roofing Racers' when I say how delighted we were to have acquitted ourselves so well, and, most importantly, to have raised so much money for charity" says Philip Johns, Managing Director of SIG Roofing.

"Macmillan Cancer Support are extremely grateful for 'Roofing Racers' continued support. The team raised over £35,000 for Macmillan, which is an incredible total. The money raised by everyone's hard work will help us do even more to improve the lives of people affected by cancer; it's enough to run our CancerLine for a month; or fund a Macmillan nurse, physiotherapist, occupational therapist or intuitionist for around ten months. This would be impossible without the help of people like 'Roofing Racers'. Thank you very much for your continued support" says Eleanor Whitfield, Challenge Events Manager from Macmillan Cancer Support.



Here are the full results for 'Roofing Racers' Corporate Sprint competitors:

Neil Harrison 01:20:52; Roland Ward 01:24:08; James Fletcher 01:24:36; Daniel Fletcher 01:24:36; Michael Hartley 01:26:37; David Roberts 01:26:44; Brett Cornish 01:27:21; Alistair Smith 01:28:49; Dan Seymour 01:29:00; Mark Gibbon 01:29:29; Nick Roberts 01:29:39; Stuart Davis 01:30:01; Christian Brash 01:30:55; Darren Wells 01:31:11; Nick Oldridge 01:31:58; Doug De Souza 01:32:35; Neil Bullen 01:32:53; David Maginnis 01:36:39; Chris Williams 01:39:48; Keith Wright 01:40:09; Shaun Nicholson 01:40:39; David Arendell 01:44:38; Philip Johns 01:47:20; Ben Sobkowiak 01:53:23; Graham Copson 01:59:33; Hayden Pattison 02:02:29; Martyn Lill 02:02:39; Craig Buckingham 02:17:25; James Pearson 02:18:26; Michael Philbin 02:21:37

Here are the full results for 'Roofing Racers' Team Relay competitors:

Polyroof Products Ltd (Emma Evans, Carl Millington, Steve Henshaw) 01:19:18; Prater Ltd (David Giles, Dave King, Joe Higgins) 01:22:15; Avonside Roofing (Ken Houston, Anthony Burke, Keith Kershaw) 01:23:44; Icopal (Paul Eccles, Jim Mathieson, Chris Finnerty) 01:29:38; Prater Ltd (William Morrison, Dan Eldrige, Martin Tyrrell) 01:36:39; Icopal (Scott Carr, Mark Bailey, Nigel Mills) 01:42:16; Hyflex Liquid Systems (Peter

whizz round the to raise over £35,000

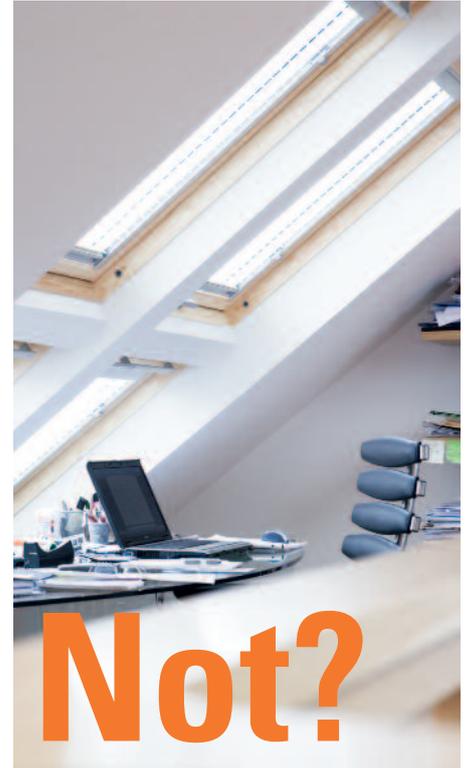


Burgin, Joey McLatchie, James Bowden) 01:42:36; SIG Roofing (Nicola Webster, Michael Ilian, Donna Neck) 01:45:32; SIG (Chris Bow, Bill Slack, Lorna Russell) 01:51:49; SIG Roofing / Hyflex Liquid Systems (Tony Kennard, Elaine Johns, Debbie Williams) 01:53:31; Sealoflex (Robin Harris, Lee Gordon, Rob Kauffmann) 02:14:30

Interested in participating?

For more information complete the reader enquiry form.





Two Triple or Not?

This really is the question of the day...

- Are three panes of glass really better than two?
- Does minimising heat loss by improving the U-value actually provide the benefits you expect?

Or

- Would an 'energy balance' offer more to building designers and customers, than a simple heat loss calculation?

OK, so that's more than one question. But nonetheless, it does show that it's not as simple as many people would have you believe. Not since the oil crisis of



the sixties has the discussion over the number of panes in a window been more at the forefront of industry discussion.

The quest for low energy buildings is appropriate, but we feel building designers should take a broader approach to energy planning. To simply specify for the sake of good U-value without the consideration of solar thermal gain and good day-lighting to reduce energy consumption in the first instance is missing the point and not necessarily benefitting your customer.

A broader energy strategy for a building should;

- **"Balance the reduction in energy consumption for space heating and artificial lighting versus the need for both natural day-lighting and ventilation"**

against;

- **"The need to reduce heat**

loss through the fabric of the building."

In order to create this balance, it's essential to understand the properties of all elements within the structure, not least the glazing area. Glazed areas have three main properties:

1. Thermal heat loss [u-value]
2. Thermal heat gain [g-value]
3. Daylight admittance [tv- value]

The stated U-value of any window will only measure one of these factors [heat loss] and ignores the benefits from the other two. Therefore, the drive towards triple glazing can actually have a detrimental affect on these benefits.

The primary purpose of glazing is to allow **natural sunlight into a building**, to both heat space and provide daylight, but it must be noted that a triple glazed window can reduce daylight by

approximately 11 - 15%. And equally can reduce the heat gain from natural sunlight by 25%. When the sun is the most abundant source of renewable energy, it does not make much sense to ignore its potential. In simple terms, it would make sense to use triple glazing on Northerly roofs where natural daylight is at its least and double glazing on Southerly roofs where the natural renewable energy of the sun can be captured to reduce artificial heating and lighting demands. Good cross and vertical flow of natural ventilation can also minimise the need for mechanical cooling and ventilation.

A building should breathe, be naturally lit and have adequate natural ventilation for comfort and health. The use of triple glazing should be considered as part of this strategy and not as the panacea for all ills driven by U-value as the only metric of performance.

Glazing Type	Energy saving (U-value)	Solar energy gain (g-value)	Noise reduction	Toughened outer pane	Laminated inner pane for additional safety	Obscure glazing	Clear and clean coating
59 Standard	✓	✓✓✓	✓	•			
34 Obscure	✓	✓✓✓	✓	•		•	
73 Additional Safety	✓	✓✓✓	✓✓	•	•		•
60 Noise Reduction	✓✓	✓	✓✓✓	•	•		•
65 Triple Glazed	✓✓✓	✓✓	✓✓	•	•		•



News in brief

Affect the decisions that affect your trade

It is not always easy to see how what goes on in Westminster affects our day-to-day lives. But we've all seen recently how decisions made by MPs and the Government can have an effect on the economy, with the building trade one of the sectors to feel these changes.

With a UK General Election due to take place by June 2010, the Electoral Commission, the independent elections watchdog, is reminding people to make sure they are able to vote and know how best to have their say, whether in person, by post or by proxy.

"More people vote in General Elections than in other UK elections - but you can't vote if you're not on the electoral register," says Clinton Proud, Head of Campaigns and Public Information at the Electoral Commission. "Remember - you can only vote if you are registered, even if you do pay council tax or have voted before."

"Because a General Election can take place at quite short notice, it's worth thinking about whether you will be able to get to a polling station on the day - which are open from 7am to 10pm - or whether to apply for a postal vote or a proxy vote - where someone you trust casts your vote for you."

To find out more about how to register and different ways to vote, go to www.aboutmyvote.co.uk. Make sure nothing stops you from having your say on who represents you.



Velux Project Daylight

Natural light is fundamental to the quality of our lives and living environments. More than any other element, its many moods and variations can help make a house a real home. Not only does it create an atmosphere, but it can actually alter the way we feel about our living space.

It can have a highly positive effect on both our physical and mental

wellbeing. And it can even help to keep costly electricity bills under control. At VELUX they believe everyone should be able to enjoy the benefits of this essential resource.

Through Project Daylight they aim to get more natural light into homes, buildings and workplaces right across the UK.

For more information complete the reader enquiry form.

Security tracking solution launched for machinery

Equipment theft is one of the biggest problems facing British businesses and a leading GPS tracking device company (www.TRAAKiT.co.uk) has been so inundated with enquires from equipment hirers and the companies in the UK construction and transport trade that they have introduced a custom programmed tracking device to safeguard equipment and machinery.

"TRAAKiT's new user-friendly device can be easily attached to anything from diggers and tractors to lorries and dumpers and we've received so many calls from companies operating in this sector that we thought we would launch a special TRAAKiT service especially for them," says TRAAKiT's Tim Young.

With no need to drill holes or modify what is being guarded in

any way, the TRAAKiT monitor can be hidden in any convenient spot such as in a compartment or under a seat. The equipment is guarded by setting an invisible boundary and the TRAAKiT user is immediately sent an SMS text message to their mobile phone and by email when the equipment being guarded leaves the designated area. The TRAAKiT user can then see where their equipment is by accessing an on-line interactive mapping system and can coordinate the capture of the thieves and the recovery of their equipment with the Police.

The invisible boundary can be set and deactivated automatically at

times to suit the TRAAKiT user. Their equipment can therefore be "locked down" and guarded when it is not supposed to be used. For equipment hirers, the TRAAKiT system will also provide them reports when the equipment is in use.

The response to this new technology in the construction industry has been phenomenal and one fine example of its many uses is leading East Anglian equipment exporters and suppliers Greenheath Limited.

The company buys and sells used construction equipment and often find that they have to leave expensive machinery such as JCB 3CX's in quite vulnerable locations overnight so using a TRAAKiT give them real peace of mind.

"If you have spent fifty or sixty thousand pounds on a piece of machinery then theft is a real concern but we use TRAAKiTs to

monitor pretty much anything that's easy for thieves to take away," says Greenheath's Iain Stephens. *"TRAAKiTs are so reliable we've used the devices to safeguard our machinery on journeys to far-flung destinations like Poland and Russia and we've even started using them on our demonstration machinery to check that equipment is where people have told us it is and is not being used for short-term contracts without our permission! As soon as the position of the TRAAKiT moves my team is alerted simultaneously and the device has transformed the way we do business."*

"The winter is always a bad time for machinery thefts as equipment is often left outside in a vulnerable place" says TRAAKiT's Tim Young. *"TRAAKiT provides an affordable flexible solution and peace of mind to companies that their assets are being watched over and it's great to know that you will be alerted immediately if anything gets taken."*

For more information complete the reader enquiry form.



Leeds apprentices learn roofing skills from John Brash



Apprentices at Leeds College of Building are amongst the first in the country to learn how to formally grade roof battens in a new course being run by John Brash. The company is the UK's leading supplier of roofing battens, cladding, scaffold boards as well as anti-slip timber decking and Cedar shingles and shakes.

John Brash held its first module in Leeds, which it developed in partnership with the National Federation of Roofing Contractors (NFRC), as part of improving safety and reducing structural problems resulting from poorly graded battens on site.

"The reason for introducing this new course is to educate the next generation of roofers and builders about keeping safe on site and creating robust buildings by grading battens correctly. It is important that young professionals receive this type of training at the beginning of their career," said Steve Blewitt, National Sales Manager at John Brash.



Kevin Taylor, Technical and Training Officer at

the NFRC, added: *"John Brash's transfer of up to date, accurate and cutting edge information as an add on to traditional course content is, in my opinion, essential if we are to help colleges provide a first class education for our young roofers, who are of course the contractors of tomorrow."*

The classes last one hour and consist of a slideshow, examples of 'good' and 'bad' grading and an end-of-session test to evaluate understanding. The course has received interest up and down the country from NFRC Affiliated colleges in Birmingham, Newcastle, Edinburgh and Glasgow amongst others.

Terry Chiswell, Course Team Manager at Leeds College of Building, said: *"We are delighted to be the first building college in the UK to benefit from this type of course. Sub-standard battens can be much weaker and potentially this could be dangerous because roofers rely on them as footholds as they move around the roof. The defects found in sub-standard battens can also lead to problems when it comes to fixing the roof coverings. By providing this course, we hope to prevent this happening and make*

apprentices more aware of why battens need to be of a certain standard and the potential pitfalls when they are not."

John Brash's JB Green is the traditional roofing batten that has been used for many years and is fully graded to all aspects of BS5534:2003 with the exception of a final grade for knots and wane which must be carried out on site.

The company was also the first manufacturer in the UK to offer factory graded battens to comply with the requirements of BS5534:2003, the code of practice for slating and tiling. JBRED requires no further grading on site. The production processes used to manufacture JBRED have been independently certified by the Building Research Establishment (BRE).

John Brash will be offering the students of Leeds College of Building a course on Western Red Cedar shingles and shakes in the coming months and, like the course on battens, this will be made available to other NFRC colleges.

To register your interest in these training modules or for information on John Brash's range of roofing battens complete the Reader Enquiry card.



Taking Responsibility



With the world's focus on major environmental events such as the Copenhagen Summit at the end of 2009, it is clear that a powerful spotlight will continue to fall upon the ecological impact engendered by businesses in all sectors. The combination of issues such as global warming and climate change, together with increasingly stringent legislative requirements imposed upon companies, particularly within the construction sector, is forcing many product manufacturers into addressing where they stand from a green perspective in terms of how they develop, produce, transport and deliver their products to the customer.

Taking construction in particular, Government-backed green

initiatives, such as the Code for Sustainable Homes introduced in 2007, and made mandatory for all new housing from 2008, together with the current impetus for business created by national carbon reduction targets, mean that the truly responsible company can no longer shy away from its environmental and sustainable obligations.

Marley Eternit takes these obligations extremely seriously and has, over recent years, addressed all areas of their business to ensure that steps are being taken to minimise the environmental impact of their production processes and their products, and maximise a sustainable future for their business.

However, it is not just legislative pressures that are creating the focus on operational

environmental standards. The marketplace they serve also speaks with a clear voice when it comes to seeking proven environmentally friendly solutions.

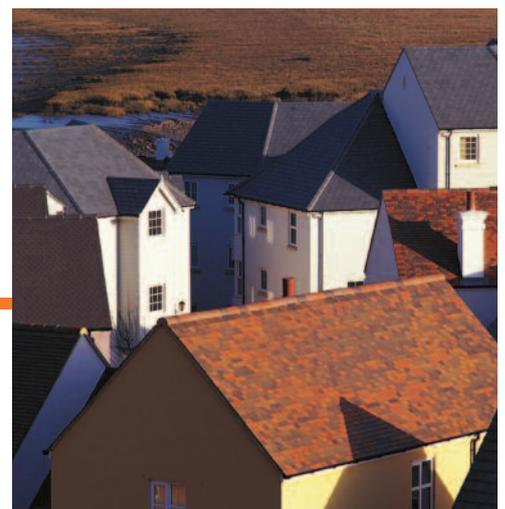
The Marketplace

Recent research carried out by Marley Eternit saw that nearly 50% ranked a 'Green Guide rating' as being of most importance to them when considering the environmental credentials of a proposed roofing product. This was closely followed by a desire to see recycled content used in roofing product manufacture.

With the government and the marketplace demanding that we do more, how in practical terms has Marley Eternit delivered

against their environmental objectives? In essence, they have a two-pronged approach which focuses upon their manufacturing processes and their product innovation.

As a start point, it is important to point out that Marley Eternit was among the first in the roofing industry to achieve ISO 14001 accreditation independently certified by BSI - the internationally recognised environmental management standard that covers their production processes. This



demonstrates their commitment to protecting the environment and sets targets for continual improvement, including product development, energy saving and the use of recycled materials.

Key initiatives

Allied to this achievement, they have set themselves a target to reduce carbon emissions from their manufacturing processes and this is being achieved by addressing 10 key activities across their operations where they can reduce CO₂. The activities range from separating, sorting and recycling manufacturing waste (at the end of their life all Marley Eternit tiles and slates can be recycled), to designing products which use less primary aggregates and raw materials. They minimise the use of mains water by recycling waste water within the production process, ensure their sites are energy efficient, and they minimise packaging without compromising on product quality. These are just some of the ongoing initiatives underway as part of their environmental policy commitment, which is also fully supported by their entire workforce across all their manufacturing sites.

Such initiatives link closely into their product innovation and the impact on the associated environmental rating of their products. A product manufactured using a process which utilises reduced energy and less primary raw materials will generally have a much lower embodied energy (the energy used to acquire, process and manufacture the product including any transportation). The consequence of this is that products with low embodied energy achieve a higher

environmental profile in the BRE Green Guide assessment procedure leading to an environmental rating.

Green rated products

The BRE 'Green Guide to Specification' is an important information source for the construction industry, as it offers a truly measureable assessment to help the industry separate the products that offer excellent environmental credentials from the ones that do not. With this in mind, all Marley Eternit's roofing and cladding products can achieve an A+ rating (the highest possible) based on the BRE's Green Guide, and this is a position of which they are justifiably proud.

The focus upon environmental benefit is also brought to life in product development. Marley Eternit's ground-breaking sustainable roof tile, Ecologic Ludlow Major has led the market in delivering a new approach to product innovation. Its unique 'pollution-eating' coating which removes nitrogen oxides and other pollutants from the atmosphere, combined with its 50% recycled material make-up, help further the case for a green specification approach through an innovative roofing solution.

Whether it's reducing waste in production, saving energy on site, cutting down on pollution, or meeting and exceeding their customers' expectations in terms of the sustainable quality of their products and services, Marley Eternit is determined to minimise the environmental impact of their business. They recognise the benefits of continual improvement in product and service quality and environmental performance, and



will continue to seek out such improvements across all areas of their operations.

The environmental journey has now begun for all companies. Marley Eternit intends to remain at the helm in assisting their customers and suppliers to put environmental best practice at the top of the construction sector's agenda.



For more information complete the reader enquiry form.



A Pledge to Support Training



London & Southern

Roof Training Group

The London & Southern Roofing Training Group announced that SIG Roofing Supplies has agreed to aid this initiative through sponsorship and support.

As the major sponsor for 2010, SIG will ensure that not only will key training be delivered to young apprentices throughout the London area, but continuous promotion of key roofing skills will be at the forefront of the industry.

Tony Church, Sales Director of SIG Roofing Supplies comments "Organisations such as the London & Southern Training Group, very much sit at the heart of the SIG Roofing Supplies mantra of driving quality and workmanship within the roofing sector and as such we are

delighted to be involved and assist in the delivery of key activities and messages."

The SIG Roofing Supplies sponsorship will consist of:

- Funding towards free training courses for young apprentices
- Promotion of Roofing Courses and the London & Southern Training Group throughout the SIG Roofing Supplies branch estate
- Provision of safety equipment and PPE workwear

Terry Peck, Chairman of the London & Southern Roofing Training Group commented "We are delighted to have SIG Roofing Supplies as the main sponsor of this important



initiative. SIG Roofing Supplies are known throughout the roofing sector as market leaders in the distribution and provision of roofing materials, advice and support."

The London & Southern Roofing Training Group was set up in 2007 to deliver training in all aspects of roofing construction from Asbestos Awareness to Basic Lead Welding.



For more information complete the reader enquiry form.



Composite Roof and Wall Panels - their sustainable credentials

Around 50% of CO² emissions and 40% of energy consumption are attributed to buildings. Research has indicated that, by improving energy efficiency, the carbon emissions from buildings could be reduced by more than 20%.

More and more, sustainable construction is in the spotlight. Products which deliver long-term thermal efficiency are important, but we are now also considering the life-cycle of buildings and the products used in their construction. This means addressing not only performance in use, but also 'cradle-to-grave' sustainability of construction products.

Composite panels are designed to deliver consistent long-term thermal performance. With the insulation pre-fitted before leaving the factory, the contractor on-site only has the responsibility of ensuring correct installation. Modern factory engineered insulated panels are designed to minimise thermal bridging at joints therefore ensuring the continuation of insulation over the entire building.

A uniform building envelope and the reduction of air leakage has been proven to significantly reduce building energy costs and CO²

emissions. The ongoing savings available via heating, ventilation and air conditioning plant and energy operating costs far outweigh any additional material costs, and these benefits continue throughout the entire life-cycle of the building. With modern metal coatings now lasting well over 40 years, composite panels are not only exceptionally efficient, they are also extremely durable.

But what happens when they come to 'end-of-life'?

By their very nature, rigid panels make dismantling the building fabric relatively easy compared to alternative construction systems. Insulated panels, manufactured from 2004 onwards, do not contain ozone-depleting blowing agents and are classed as non-hazardous, therefore conventional shredder plants can safely and efficiently process these panels. Steel remains a valuable commodity and its monetary value renders the recycling processing of modern panels cost neutral, offsetting the expense of transporting them from site. The granulated metal is recycled after processing.



PIR cored Insulated panels include an insulation core that is environmentally friendly, which has a low global warming potential. These panel systems are eligible for additional credits in BREEAM schemes and have a BRE Green Guide 'A'-rated certification, which is increasingly important with the current emphasis on sustainable development.

Steadman's is one of the UK's leading manufacturers of metal-faced composite panels, for external use on industrial and commercial buildings, offering not only highly efficient trapezoidal profile composite panels, but also a new innovative slate effect option, Meta-SlatePlus, which offers all the benefits of modern insulated panel roof construction with the traditional appearance of slate.

For further information on Steadmans range of Insulated Panels, return the reader enquiry.

ENQUIRY
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Caption competition

**Are you good at creative thinking?
Like making-up captions?**

Well if you do, this is your perfect opportunity to shine and win some essential winter kit worth over £100! It's not just one prize but several including;

- *Slaters kit containing an Axe, Scribe & Ripper*
- *Gel Knee pads*
- *Toasty bomber jacket, hat & gloves*
- *Fatmax Stanley Knife & Hook blades*

Think of a suitable caption for the picture below and if we like it, you could be one of our THREE winners!



Please complete your answer on the attached reader response card before April 16th 2010 and we will get back to you very soon.

Terms & Conditions:

1) To enter the competition you must complete all details on the reader response card. 2) The competition is only open to UK residents aged 18 or over, excluding employees of SIG Roofing Supplies, their families and the employees of any associates, agents or suppliers. 3) Only one entry per person. 4) Closing date for entries is 5pm on 16th April 2010. 5) Winners will be notified by phone after the closing date. 6) SIG Roofing Supplies reserves the right to supply an alternative prize. A cash alternative is not available. 7) The judges' decision is final and no correspondence will be entered into. 8) Winning entrants may be used in future communications.



The "Safety Net" of a quality membrane with the new high strength DuPont™ Tyvek®

Is there any consideration more crucial in the construction industry than safety? Quite rightly, one of the key concerns capturing headlines in recent years has been sustainability, but this, together with cost/benefit issues of the quality and performance of the materials specified, is just one of the cornerstones of an ethical working practice. The industry must develop and adhere to holistic solutions that help to ensure every essential box is ticked, and to this end, DuPont has developed a new product, DuPont™ Tyvek® Supro HS.

The harsh facts tell us that construction accounts for the highest number of fatalities in the main industry groups and falls from height are the most common type of such injury. Government guidelines tell us: "Working on any roof is a hazardous activity, irrespective of whether it is fragile or non fragile. Roofers are particularly at risk within the industry and falls through fragile materials are identified as a serious problem."

Clearly it's not possible in many circumstances to entirely eliminate the risk of any fall when working at height. Human error and unforeseen



severity of injury should any accidents occur. As falls through “fragile roofs” account for 22% of all the deaths that result from a fall from height in the construction industry, HSE Guidelines outline key considerations and measures that those in control of the work must put into place.



Tyvek.

These include the use of “collective protection systems such as scaffolds, nets and soft landing systems,” which have advantages over measures designed only to protect the individual (e.g. harnesses) because such “passive” systems do not place the onus on the individual to activate (i.e clip on a harness). A “fragile material” is defined as “one that does not safely support the weight of a person and any load they are carrying. The fragility of a roof does not depend solely on the composition of the material in it. The following factors are also important: thickness of the material; the span between supports; sheet profile; the type, number, position and quality of fixings; the design of the supporting structure, eg the purlins; and the age of the material.”

Therefore, with even greater stress on



construction companies to do all in their power to ensure a safe working environment – and onerous financial and legal potential penalties if any liability is found – it makes sense to specify products that aim for the highest standards of quality, environmental regulations and health and safety. When fitting a roofing underlay, the right membrane can make all the difference, not only to the long term performance and integrity of the roof, in terms of sustainability, weather protection, breathability and interior comfort, but also to improved worker protection.

Due to be launched in early spring 2010, DuPont™ Tyvek® Supro HS is a new version of the vapour-open, water-tight underlay that builds on its existing inherent strength by adding a reinforcing grid. Designed for use in pitched roof construction, this high strength adaptation features not only the unique functional single layer that makes DuPont™ Tyvek® so crucially different, but also a heavy-duty polyester/latex lamination. This reinforcement, together with specially developed ribbed nails, offers extra protection in the event of a fall or of dropped tools. Provided correct installation is undertaken, the use of DuPont™ Tyvek® Supro HS can not only protect the building envelope from wind, dust and moisture, but can also help to guard precious human life and health.

For more information complete the reader enquiry form.



events cannot be legislated for, but proper preparation, site vigilance, training and the use of safety-conscious equipment and materials can greatly reduced both the risk and the



How Green is Your Valley (gutter)?



When it comes to the true definition of sustainability, no other roofing material can come close to Lead.

A sustainable building material must, by definition, be one that can be reliably utilised for the foreseeable future, have the maximum possible service life, while at the same time consuming as little as possible of the Earth's finite natural resources in its production. That definition just about sums up Lead used in roofing.

Almost all new Lead sheet is produced from recycled raw material. Not just recovered demolition scrap, but from old car batteries as well. The scrap collection and recycling industry for Lead is now so efficient that its collection rate is almost 100%. And that means that very little new Lead needs to be dug out of the ground, thereby depleting natural resources. The other bonus for Lead recycling is that it is done at relatively low temperature so harmful emissions and energy use are minimised.

Now add to that very proud boast the fact that every good roofer knows: if you fit Lead properly, you can forget it. No call backs, no

failures, no problems. There are plenty of examples of Lead roofs in this country that are over 700 years old. Correctly fitted flashings using British Standard rolled lead will last 150 years or more – longer than any other part of a roof.

Always insist you are given British Standard Rolled – it's the only one that is proven to maximise the lifespan of a roof. And the only one that the UK Lead Sheet Association recommends should be used. Anything else will have a limited service life, and in the case of the bitumen based need replacing in a matter of years.

So Lead hits the mark for sustainability on two counts: it comes from recycled raw material and it has the longest service life of any flashing or roofing material. But how can it be truly sustainable unless the skill base for its use is sustainable too. Last year the Lead Sheet Association (www.leadsheet.co.uk) opened the UK's only permanent specialist Leadwork Training centre just outside London. With life-size roofing rigs and a range of courses running all year round to suit everyone from beginners



to experts the centre provides up to 2,000 training days per year. So the most sustainable and green roofing material now has a future with craftsmen Leadworkers ready to maintain Lead's unique reputation for quality.

Joss Campbell, Commercial Director, British Lead commented "Again, just stop and consider the comparison between Rolled Lead and the hydro-carbon, non-recyclable, limited lifespan, plastic looking and unreliable bitumen covered mesh flashings. Doesn't take long to work out which option to pick, does it? If you want people to admire the quality and high standard of your work, probably best not to stick a bit of plastic flashing round that chimney."

BLM have a proud reputation for producing quality Lead Sheet, all is manufactured to BS EN 12588, ensuring thickness consistency. And it is this consistency that gives confidence in the products they produce to architects, contractors and homeowners.

Being part of the world's largest Lead recycling group also ensures the raw material used to produce their Lead is just that -100% recycled - making it one of the most sustainable products in the building industry.

BLM supply the highest quality Lead Flashings and Lead Roofing, providing lasting protection and an attractive finish for historic and contemporary buildings both large and small.

For more information complete the reader enquiry form.



Redland are 'FiT' for the future

Redland, one of the UK's leading solar-renewable roofing suppliers, has welcomed this week's Government announcement on Feed in Tariffs (FiT), which are designed to incentivise small scale, low carbon electricity generation.

The new Feed in Tariffs will provide "clean energy cashback" for householders, communities and businesses who invest in technology to generate electricity on their property.

Redland, which is launching its second generation of roof-integrated PV tiles this spring, see below, believes this is just the kick-start needed to encourage both housing developers and consumers to invest in solar technology and directly tackle climate change.

Said Redland's Head of Marketing, Richard

Hartley: "Nearly every house in this country has a pitched roof which could be used to generate clean electricity. The new Feed in Tariffs recognise the importance of electricity-generating roof tiles to the climate change agenda, with both the highest tariff levels (up to 41.3p/kWh) and the longest tariff lifetime (25 years). In real terms, tariff levels have been set to provide a rate of return of around 5-8%".

"With this in mind, it is obviously vital that both the systems and the roof will perform throughout that period. Redland's latest PV tile systems have been specifically designed to integrate with five of our most popular tile ranges in the housing market, and offer both aesthetic and roof performance benefits over above-the-roof systems, which, if poorly fitted, can compromise the weather tightness of the roof."

A fistful of new products

Redland's position as one of the UK's leading solar-renewable roofing suppliers will be confirmed at Ecobuild, where the company launches not one, but five new roof tile specific PV systems.

Each system has been developed to match one of Redland's five most popular tile ranges for the house building market;

- Cambrian
- Mini Stonewold
- DuoPlain,
- 50 Double Roman
- Grovebury

This will make Redland the first company to offer developers a fully-integrated PV solution for slate, plain tile and profile tile roofs.

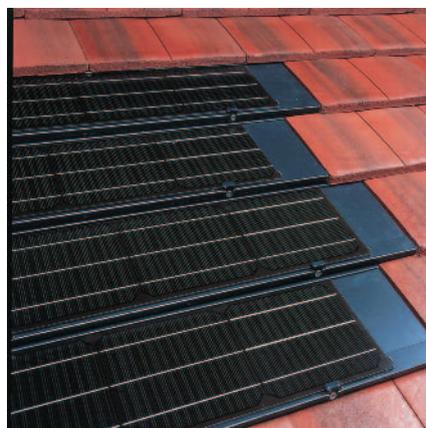
The launch is timed to take advantage of the Government's new Feed In Tariffs, mentioned above, which are expected to stimulate the micro-renewable market in both the public and private new housing sectors.

Redland has been at the forefront of PV roofing technology since 1997, and this second generation of PV roof tiles is designed for ease of installation as well as performance. They are laid using the same laying patterns as the tiles they replace, making them suitable for retrofitting as well as new build projects.

Redland's new roof-integrated PV tile systems offer both aesthetic and roof performance benefits over "above the roof" panel systems and, following extensive testing to ensure weather tightness, resistance to wind uplift and fire performance will be included in Redland's 15 year Roof Guarantee, which covers the durability of the whole roof.

Find out more at Ecobuild (Earls Court 2nd to 4th March), at stand 1614.

For more information complete the reader enquiry form.



the **Redland** range



Where can you find an Insight approved stockist?

Anglia

Lee & Son Roofing Merchants	Bedford 01234 325283
Scotplas	Bedford 01234 355568
Asphaltic Roofing Supplies	Cambridge 01223 245262
Asphaltic Roofing Supplies	Colchester 01206 791242
Omnico Plastics	Colchester 01206 871510
Asphaltic Roofing Supplies	Great Yarmouth 01493 659991
Omnico Plastics	Great Yarmouth 01493 659991
Omnico Plastics	Ipswich 01473 461461
Regional Roofing Merchants	Ipswich 01473 749621
Asphaltic Roofing Supplies	Luton 01582 456177
Omnico Plastics	Luton 01582 733434
Asphaltic Roofing Supplies	Northampton 01604 765684
Omnico Plastics	Northampton 01604 590925
Wedge Roofing Centre	Northampton 01604 250261
Asphaltic Roofing Supplies	Norwich 01603 467860
Omnico Plastics	Norwich 01603 219430
Lee & Son Roofing Merchants	Peterborough 01733 345004
Omnico Plastics	Peterborough 01733 559166
Summers	Romford 01708 722844
Asphaltic Roofing Supplies	St Ives 01480 467776

London

Asphaltic Roofing Supplies	Cheam 02083 379455
Asphaltic Roofing Supplies	Croydon 02086 866911
Roberts & Burling	Croydon 02086 890481
Asphaltic Roofing Supplies	Kentish Town 02074 855550
Proos Roofing Supplies	Kentish Town 02074 851791
Wedge Roofing Centre	Ladbroke Grove 02089 690022
Asphaltic Roofing Supplies	New Cross 02073 580085
Wedge Roofing Centre	Rainham 01708 555213
Asphaltic Roofing Supplies	Romford 01708 754022
Asphaltic Roofing Supplies	Slough 01753 570526
PBM-DQS	Slough 01753 823479
Asphaltic Roofing Supplies	Southend 01702 511158
PBM-DQS	Southend 01268 725935
Asphaltic Roofing Supplies	Stratford 02085 194805
Asphaltic Roofing Supplies	Tottenham 02088 080459
Wedge Roofing Centre	Tottenham 02088 086816
Wedge Roofing Centre	Waltham Cross 01992 624938
Omnico Plastics	Watford 01923 237110
Project Plastics	Whyteleafe 02086 680600

Scotland

Asphaltic Roofing Supplies	Aberdeen 01224 692000
Scotplas	Aberdeen 01224 589890
Scotplas	Ayr 01292 262885
Scotplas	Bellshill 01698 740066
Asphaltic Roofing Supplies	Broxburn 01506 857613
Asphaltic Roofing Supplies	Dundee 01382 833011
Scotplas	Dundee 01382 489959
Asphaltic Roofing Supplies	Edinburgh 01315 542554
PBM-DQS	Edinburgh 0131 669 8632
Asphaltic Roofing Supplies	Glasgow 01415 565200
PBM-DQS	Glasgow 0141 445 6475
Proos Roofing Supplies	Glasgow 01698 817428
Proos Roofing Supplies	Inverness 01463 250318
Scotplas	Inverness 01463 229239
Asphaltic Roofing Supplies	Kirkcaldy 01592 654913
Border Slate Supplies	Melrose 01835 823640
Proos Roofing Supplies	Paisley 01505 321122

North West

Proos Roofing Supplies	Birkenhead 0151 6452450
Clydesdale Roofing Supplies	Blackpool 01253 398376
Proos Roofing Supplies	Bolton 01204 523336
Summers	Crewe 01270 254724
Clydesdale Roofing Supplies	Leyland 01772 453939
Cladding & Fascia Supplies	Liverpool 0151 2636737
Clydesdale Roofing Supplies	Liverpool 0151 5212100
Asphaltic Roofing Supplies	Manchester 01612 307712

North West continued

Clydesdale Roofing Supplies	Manchester 0161 3203456
Omnico Plastics	Manchester 01204 604342
Scotplas	Preston 01772 798800
Clydesdale Roofing Supplies	St Helens 01744 611471
Scotplas	Stockport 01614 741818
Clydesdale Roofing Supplies	Wigan 01942 615030
Omnico Plastics	Wigan 01942 236200

Yorkshire

Proos Roofing Supplies	Bradford 01274 392433
Proos Roofing Supplies	Grimsby 01472 245667
Roplas	Grimsby 01472 268866
William Smith & Sons	Huddersfield 01484 653373
Kesteven Roofing Centre	Hull 01482 574577
Roplas	Hull 01482 224614
Asphaltic Roofing Supplies	Leeds 01132 631263
Armour Building Products	Leeds 0113 263 1631
Kesteven Roofing Centre	Leeds 0113 2351441
Kesteven Roofing Centre	Rotherham 01709 835500
Scotplas	Rotherham 01709 374951
Proos Roofing Supplies	Scunthorpe 01724 854444
Clydesdale Roofing Supplies	Sheffield 0114 2434188
Roplas	Sheffield 01142 560011
Kesteven Roofing Centre	York 01904 476319
Roplas	York 01904 438205

South Coast

Asphaltic Roofing Supplies	Bishops Waltham 01489 896544
Asphaltic Roofing Supplies	Bournemouth 01202 731867
Omnico Plastics	Bournemouth 01202 591677
Omnico Plastics	Christchurch 01202 476363
Omnico Plastics	Eastleigh 02380 610110
Toogood Plastics	Isle of Wight 01983 721511
Proos Roofing Supplies	Poole 01202 682491
Asphaltic Roofing Supplies	Portsmouth 02392 671521
Coleman Roofing Supplies	Portsmouth 02392 690214
Omnico Plastics	Portsmouth 02392 693451
Omnico Plastics	Farlington 02392 379410
Formerton Roofing	Southampton 02380 365555
Asphaltic Roofing Supplies	Waterlooville 02392 258344

South East

Omnico Plastics	Ashford 01233 646749
Summers	Ashford 01233 668338
Asphaltic Roofing Supplies	Brighton 01273 430444
Omnico Plastics	Camberley 01276 462932
Roofing Centre Group	Canterbury 01227 452290
Omnico Plastics	Chatham 01634 670404
Scotplas	Dartford 01322 337223
Asphaltic Roofing Supplies	Eastbourne 01323 500458
Coleman Roofing Supplies	Finchampstead 01189 733788
South Coast Roofing Supplies	Folkestone 01303 226888
Accurate Roofing Supplies	Gravesend 01474 532999
Omnico Plastics	Hastings 01424 853077
South Coast Roofing Supplies	Hastings 01424 853099
Asphaltic Roofing Supplies	Horsham 01403 270640
Omnico Plastics	Hove 01273 421507
South Coast Roofing Supplies	Hove 01273 328640
Coleman Roofing Supplies	Leatherhead 01372 361600
South Coast Roofing Supplies	Lewes 01273 488888
Coleman Roofing Supplies	Milford 01483 425828
Roofing Centre Group	Maidstone 01622 843399
Summers	Maidstone 01622 686140
Summers	Northfleet 01474 533335
Roofing Centre Group	Ramsgate 01843 592772
Asphaltic Roofing Supplies	Sidcup 02083 025451
Roofing Centre Group	Sittingbourne 01795 843967
Omnico Plastics	Tonbridge 01732 361515
Roofing Centre Group	Tunbridge Wells 01892 515599
The Roofing Warehouse	Worthing 01903 201013

Tyne and Tees

Cleveland Roofing Centre	Gateshead 0191 4779474
Scotplas	Gateshead 0191 4786402
Proos Roofing Supplies	Killingworth 0191 2686627
Cleveland Roofing Centre	Middlesbrough 01642 242753
Cleveland Roofing Centre	Stockton 01642 677772
PBM-DQS	Washington 01914 179899

South West

PBM-DQS	Chard 01460 61500
Asphaltic Roofing Supplies	Exeter 01392 250323
PBM-DQS	Exeter 01392 444346
South West Roofing Supplies	Exeter 01392 446001
Asphaltic Roofing Supplies	Newquay 01637 852660
Asphaltic Roofing Supplies	Plymouth 01752 509538
South West Roofing Supplies	Plymouth 01752 344844
Aaron Roofing Supplies	Taunton 01823 323888
South West Roofing Supplies	Torquay 01803 613212

West

Aaron Roofing Supplies	Bath 01225 483828
Aaron Roofing Supplies	Bristol 01179 710085
Asphaltic Roofing Supplies	Bristol 01179 412412
Universal Roofing Supplies	Bristol 011129 663072
Aaron Roofing Supplies	Gloucester 01452 521347
PBM-DQS	Gloucester 01452 387832
Thomas Smith & Son	Hereford 01432 273084
Harris Roofing Supplies	Newbury 01635 521210
Asphaltic Roofing Supplies	Oxford 01865 790303
Asphaltic Roofing Supplies	Swindon 01793 613339
Omnico	Swindon 01793 617888

Wales

Scotplas	Bangor 01248 362348
PBM-DQS	Bridgend 01656 767427
Asphaltic Roofing Supplies	Cardiff 02920 483939
PBM-DQS	Cardiff 02920 464302
Ryan Roofing Supplies	Cardiff 0292 037 8911
Scotplas	Deeside 01244 823555
PBM-DQS	Merthyr Tydfil 01443 692924
PBM-DQS	Newport 01633 255223
PBM-DQS	Neyland 01646 601699
Proos Roofing Supplies	Porth 01443 681004
John Hughes Roofing Supplies	Rhuddlan 01745 591515
Asphaltic Roofing Supplies	Swansea 01792 790272
PBM-DQS	Swansea 01792 795612

Midlands

Asphaltic Roofing Supplies	Birmingham 0121 3273071
Proos Roofing Supplies	Birmingham 0121 5239143
Direct Roofing Supplies	Birmingham 0121 7081515
Scotplas	Birmingham 0121 3597442
Warwickshire Roofing Centre	Coventry 02476 688754
Wedge Roofing Centre	Coventry 02476 220755
Asphaltic Roofing Supplies	Derby 01332 349155
Omnico Plastics	Dudley 01384 472430
Wedge Roofing Centre	Dudley 01384 472420
Asphaltic Roofing Supplies	Leicester 0116 2785262
Footitts Roofing Supplies	Leicester 0116 2778676
Roplas	Leicester 01162 758080
Wedge Roofing Centre	Loughborough 01509 211119
Proos Roofing Supplies	Newark 01636 611880
Armour Building Products	Nottingham 01159 617719
Stephens Roofing Centre	Nottingham 01159 851400
Wedge Roofing Centre	Nottingham 01159 285999
Shropshire Roofing Supplies	Oswestry 01691 654551
Asphaltic Roofing Supplies	Stoke 01782 280567
Proos Roofing Supplies	Stoke 01782 577330
Scotplas	Stoke on Trent 01782 593336
Shropshire Roofing Supplies	Telford 01952 641161
Alltrim Plastics	Willenhall 01902 366966
Keydek Roofing	Willenhall 01902 637111

Roofing depots are in blue.

Roofline depots are in green.