

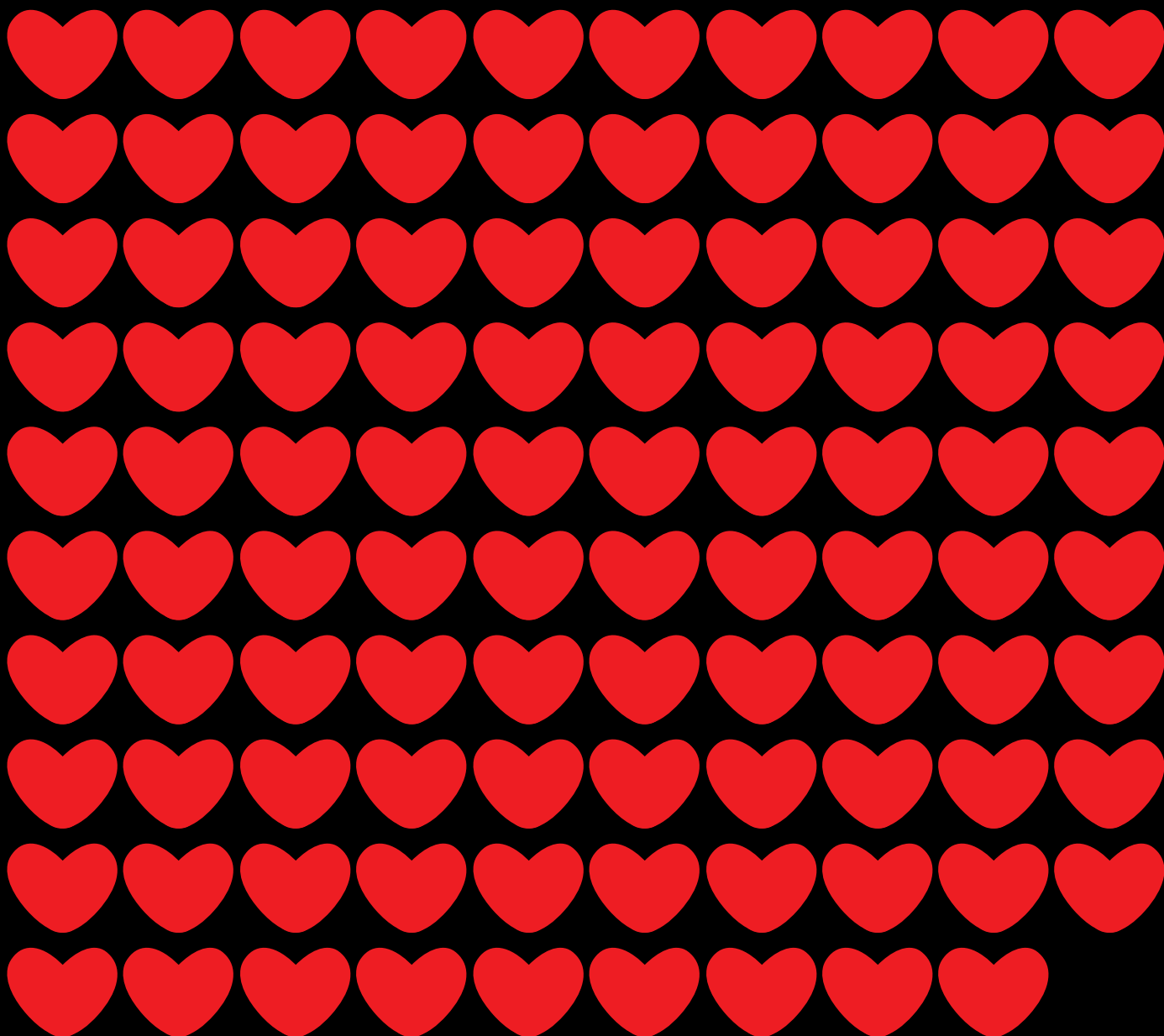
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October/November 2013





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Designing balustrades that deliver style with safety and durability

While aesthetics are obviously important, a balustrade project must also be fully compliant and fit for purpose for the particular application, whether that's apartments or an airport. Nick Haughton, marketing manager at Sapphire Balustrades, offers advice on designing balustrade solutions that deliver style with safety and durability

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Cover image: ©Roca
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Boost the value and enjoyment of your home with these simple measures to increase space

Declan Curran from HomeFix Direct shares his tips on how to expand your home

Whether you're looking to boost the value of your home or want to create an extra room to enjoy, creating some extra space from within the existing house is a great route to go down. HomeFix Direct is a property maintenance and repair company based in London, run by entrepreneur Declan Curran.

Declan suggests that there are four key parts of every house that hold potential for development to unlock extra space and extra value. Which way you chose to develop depends on your budget as well as the hidden potential of the spaces in your home.

Extend upwards

Declan says, "Many people will immediately think of a roof conversion. If you have the potential for an extra bedroom or study in the attic, this is a great way to add around 10 per cent to the value of

your home, especially in areas that attracts families. With costs generally starting from £10,000 – £15,000 it can provide a great return on your investment. Make sure you talk to local estate agents about how much value a roof conversion could add on. However, as it's likely that different areas will see fluctuations in added value.

Under the stairs

Somewhere you might not have considered is under the stairs. If you're looking for the perfect place to add in a downstairs loo, wine rack or just looking for a little extra storage space, a renovation could be the perfect solution. For those in semi-detached or terraced houses, under the stairs can sometimes be the only way to go. Make sure you consider headroom, plumbing and ventilation issues before you consider this option though.

Into the basement

If you don't have enough space to extend upwards,

maybe downwards is the best option for you. For those who live in areas with a high value per square foot this could be a great option, especially if you have a pre existing cellar. Cellars can be converted for around £100 per square foot, but if you need space to be dug out this will be much closer to £300. Prepare to move out your home while the work takes place, but if you are looking to create more space to enjoy for years to come, this can be a great option to explore.

Garage conversion

Of course, if you are looking to expand outwards, then an unused garage might provide the best solution, especially as some surveys claim that 90% of homes with attached garages never put their car into the garage. While using the space to add a new/extend an existing kitchen is likely to be expensive, simply creating an extra room can be achieved from around £15,000."

More government support for self-build surge

More people looking to start a building project, including affordable homes for their local community, are to receive support.

Self-build is an important element of the government's housing strategy, and supports action to help new house building firms and get empty and redundant buildings back into productive use.

The measures announced on 17 September 2013 will complement steps the government has already taken to dismantle barriers that hold back self-build projects: limited land availability and reluctance by lenders to provide finance and red tape.

Communities Minister Don Foster announced a series of measures to ensure the self-build market is opened up to those on lower incomes. These include:

Providing new grant funding for community self-builders

For the first time community self-build and community-led affordable housing projects will be able to apply for a share of £65 million from the Affordable Homes Guarantees Programme to build the affordable homes they want in their area.

Working with councils to increase land for self-build plots

New planning practice guidance will be introduced to ensure councils establish the demand for self-build in their area, as well as take steps to help aspiring self-builders. This will include compiling a local register of people who want to build their own homes so they can be given first priority when new brownfield sites become available.

Removing unfair taxes from self-builders

New Council Tax discounts will be introduced for self-build family annexes, removing an unfair council tax penalty surcharge. Meanwhile, genuine self-builders will be exempted from paying inappropriate Section 106 tariffs and the community infrastructure levy, which will cut the cost of self-build by thousands.

Freeing up more redundant public sector land for

self-builders

A review of the Homes and Communities Agency's large number of smaller plots will identify those which are not viable for large-scale house building, but are perfect for small housing projects like self-build. More property asset data will be published online and the Community Right to Reclaim Land enhanced so self-builders can request redundant public sector land is released and sold for self-build projects.



First homes must cater to needs of new TV savvy generation

More than half (52 per cent) of 18-34 year olds in the UK now expect access to a digital TV service as standard in their homes, seeing it as an everyday necessity, according to a nationwide survey. Our younger generations now see access to digital TV as more like a common utility, with only a quarter (26 per cent) of those surveyed still considering digital TV services a luxury in their home.

The survey of 2,000 people commissioned by Sky found that only 4 per cent of young people would now settle for just terrestrial TV in their new home,

whereas a huge 78 per cent of people surveyed want access to a digital TV service.

Expectations do not stop at choice and quality of their digital TV, with this generation also demanding high levels of customer service. For 18-34 year olds, time is money and a significant 39 per cent of respondents would expect their digital TV service to be in and running within 48 hours. The vast majority of young people (81 per cent) would expect to have their digital TV service installed within seven days.

Brendan Hegarty, Head of Sky Communal TV, comments: "What we have here is a generation with different expectations from their parents and grandparents, fuelled by our rapidly evolving media landscape and consumption. Young people now expect a broader and more compelling choice of TV programming at their fingertips in their home and rightly so. It is our job, working together with landlords and property developers across the UK, to make sure that future generations of home owners and tenants receive the services they demand."

Blueprint wins national accolade

A groundbreaking eco-housing development in Nottingham has scooped a prestigious national award for specialist regeneration developer Blueprint.

Green Street in the Meadows, 38 architect-designed contemporary townhouses on the banks of the River Trent, has been named one of the Best Residential Developments in the UK Property Awards.

Blueprint competed against a number of property development organisations for the national title.

Nick Ebbs, chief executive of Blueprint, said: "It's exciting to see Green Street getting national recognition. It's been outstandingly successful commercially, and it has proven that there is a healthy market for architect-designed, low energy homes. We are now applying this successful model to new projects in Nottingham and elsewhere."

Blueprint is among a number of winners who may go on to compete in the International Property Awards.



Major student accommodation schemes get off the ground

Two high profile student accommodation schemes at King's College London and Manchester Metropolitan University (MMU) are finally underway. MMU have been recently named the greenest university in the UK and number one in the People and Planet League Table 2013 of 140 universities. The King's College London project will be BREEAM Outstanding. Combined, the schemes total over 1,600 units with frame being delivered onto site this month.

Despite being at opposite ends of the country the schemes share the same construction challenges, not least of all, operating to a strict build programme to ensure that both sites are occupied by students in

September 2014.

Both developments are using Prestoplan Urban Advantage, a frame system designed to mitigate the risk of fire during construction but through its construction is designed to only require the application of one layer of 15mm plasterboard on site. This system results in a much faster and more efficient build, paving the way for follow on trades much more efficiently. While Urban Advantage has far reaching benefits during the construction phase, the acoustic and thermal performance properties of this evolved timber system will bring significant benefits to its occupants.

Ian Loughnane, Prestoplan managing director

comments: "In terms of the benefits for students, timber frame, by virtue of the factory precise nature of its manufacture delivers high levels of thermal performance, Urban Advantage goes beyond that and delivers U-values as low as 0.2W/m²K. It's vital that we also address the acoustic challenge, suffice to say, students occupying this accommodation will sleep soundly despite what's going on down the corridor."

The development at Manchester Metropolitan University comprises 967 bedrooms, while the King's College London project totals just over 640. Both developments are following the same build programme.

Roca London Gallery wins 2013 New London Award

Roca London Gallery by Zaha Hadid Architects has won the 2013 New London Award for retail interiors.

The New London Awards recognise the very best in architecture, planning and development in London. Projects across all sectors of the built environment were eligible and judged by an international jury. The jury recognised schemes of the highest design quality that demonstrate a positive impact on their surroundings and make a wider contribution to life in the city.

All shortlisted projects will be featured in the New London Architecture (NLA) Galleries. NLA – London's Centre for the Built Environment – The Building Centre, 26 Store Street, London WC1E 7BT.



Courtesy of Roca

New 360° image shows continuing transformation of the Olympic Park one year on



A remarkable new 360° interactive photograph – which shows in detail the ongoing transformation of the former Olympic Park – was released to coincide with the first anniversary of the London 2012 Opening Ceremony.

The image, which shows progress at The International Quarter, their £2 billion commercial development at Stratford City, was created using wide shot images taken from a helicopter to create a 360 degree panoramic view of the area. Noticeable changes over the last 12 months include additional green park spaces at The Queen Elizabeth Olympic Park, the removal of all temporary venues such as the basketball stadium, the development of the plaza in front of the stadium and the conversion of the Athletes' Village into the East Village, which is now in the final stages of becoming residential housing. The International Quarter development site has also

been prepped for construction and an area of landscaping has been added that creates a pathway from Westfield Avenue to the Olympic Bridge.

Kristy Lansdown, Lend Lease's project director, said: "The International Quarter is envisioned to become the commercial heart of the Olympic regeneration legacy and will be vital in making full use of the £12.5 billion of infrastructure put in place for London 2012. The innovative office space, which will be specifically designed to enhance the performance and productivity of those that work there, will attract big businesses to the area and create significant numbers of new jobs whilst delivering a much-needed economic boost for two boroughs which have previously been amongst the most deprived areas of London."

Lend Lease and LCR announced last week the first commercial deal at The International Quarter,

which will become the largest new commercial district built in London since Canary Wharf in the 1990s. Contracts were exchanged with Starboard Atlantic Hotels LLP for the construction of an 18-storey hotel complex overlooking East Village.

Lend Lease and LCR plan to build on this momentum by submitting a planning application later this year for the first 320 new homes at The International Quarter. If the application is successful, the homes will go on sale in early 2014.

This builds on Lend Lease's strong progress this year at its other regeneration site in Central London, Elephant & Castle. The company announced this month that it had started on site at the long-awaited £1.5 billion regeneration, which will deliver 3,000 new homes and 50,000 sq ft of offices over the next 10 years.

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ROOF LIGHT SOLUTIONS FOR THE METAL BUILDING ENVELOPE



A new RIBA certified CPD seminar is now available from **Hambleside Danelaw Ltd.** *Rooflight Solutions for the Metal Building Envelope* addresses considerations when specifying roof lights, focusing on new-build metal buildings and refurbishment of existing and commercial building stock. Attendees will gain a deeper understanding of the operational, financial and environmental benefits of a well-chosen daylighting plan using GRP roof lights.

01327 701900

www.hambleside-danelaw.co.uk/news/cpd-seminars

SLIDING & FOLDING DOOR GEAR – SPECIFICATION AND DESIGN



P C Henderson's newly updated CPD, *Sliding & Folding Door Gear – Specification and Design*, has been approved by RIBA. Attendees will discover the benefits, features, functions and applications of sliding and folding door hardware in residential, industrial and commercial projects. They will also learn what common problems to avoid and what tools can be used in order to specify accurately, while taking into consideration new developments in hardware technology, security accreditations and environmental standards.

gsmith@pchenderson.com

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CABINCO LAUNCH CPD MODULES IN SOLID TIMBER CONSTRUCTION



Solid timber construction company **Cabinco** offers specifiers opportunities for merging the benefits of both sustainable construction and off-site manufacture to provide, rapid, sustainable & economic construction to suit current market criteria. The objective of the first module in this series delivers a clearer understanding of the types of timber construction that are available. This module is available online with an estimated one hour value per session.

Follow up modules include machine profile log construction, which details the specific advantages and limitations of this construction style to enable a greater understanding of when this build system is best used and experience of using it within the education market.

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A combined presentation/seminar given by timber construction/timber experts with over 30 years' experience in the field is also available by appointment.

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World's coolest car park revealed

A car park in Miami has been announced as the world's coolest, shrugging off rivals from across the globe in a competitive new design awards. The car park, 1111 Lincoln Road, Miami, in the US was praised for its "bold, innovative and striking design" by the judges' panel.

© Hufton
+ Crow



It was also good news for UK with Charles Street in Sheffield being awarded third place and Millennium Point in Birmingham also making the top ten of the global list.

© Dennis
Gilbert



Developed by parking company www.StressFreeAirportParking.com, in partnership with the respected design titles DesignCurial & FX magazine, the new awards celebrate creativity and design in buildings often perceived as dull and dreary.

1111 Lincoln Road, designed by Herzog & de Meuron, was completed in 2010 and has been described as resembling a house of cards. The structure's impressive design embraces the community by providing public spaces and shops.



news bytes

Visit the HbD news blog bbd-news.blogspot.co.uk and enter the reference number for more information

Living and working with climate change – new research warns of future building meltdown...

Ref: 30500

£150 million investment will help transform UK construction sector...

Ref: 48188

Institution of Structural Engineers survey reveals small business BIM concerns...

Ref: 21255

ISG celebrates milestones at Center Parcs, Woburn Forest...

Ref: 14151

Viking House office to residential conversion

In the last year Coupdeville Architects have started work on Viking House, a disused office block which is being converted into a contemporary residential housing block with a mixture of 64 one- to three-bedroom flats and penthouse units. This is following the government's new policy earlier this year allowing the conversion of offices to residential without planning permission. The reform is aimed at speeding up the conversion of empty commercial space into desperately needed housing.

The brief was to convert an disused office building into a new residential block. Viking House is 866 sq m and is located in Swalldale Lane, Hemel Hempstead. The project started in October 2012 and is due for completion in the summer of 2015. The cost of the project is approximately £3.8 million.

The new section of the building comprises mostly of a slatted wooden facade with slender vertical elements drawn from the architectural language

of the existing facade. These elements not only offer structural support to the cantilevered design but also lend itself as a visual break to the building, allowing it to be appreciated in smaller segments. The approach behind the use of timber as a cladding system allows the new wing of the building to sit humbly next to the existing building and blends into the wooded landscape in which it sits. The key feature of the new residential block is the circulation tower linking the old existing building to the new extension. The extension on the existing building attempts to not only balance the visual aspects of what was already there, but sits appropriately juxtaposed to what was once an old and under-appreciated building. Drawing on the aesthetic of this 1960s building, the new elevation backing onto the main road reinterprets the architectural language of the existing building and is remade into a new contemporary facade with balconies to the rear of the existing property.

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Designer Contracts' business blooming



Business is booming for **Designer Contracts** as figures show a 40 per cent growth in the past two years. As a result the company has taken on an additional five senior members of staff, bringing the total number of new senior employees recruited this year to eight and total staff employed with the company to 180. The expanding southern region will be the greatest beneficiary with two new members joining the team. They are Gary Leiper as area manager and

David Haines as area sales coordinator. Also joining the business is Maha Khaliq-Bye as design sales manager for the showhome division, Sally Prop as area sales co-ordinator and Simon Tucker as sales manager.

01246 854577 www.designercontracts.com

BM TRADA helps Reisser achieve CE marking



Reisser has achieved CE marking for its R2 and Cutter series of wood screws with the help of **BM TRADA**. BM TRADA conducted initial type testing for the high performance wood screws, which are used within the construction industry.

The Cutter features two patented slots and distinct ribs and tucks under the head to enable screwing closer to the edge without splitting, while the R2 uses hardened steel to provide maximum tensile and torsional strength and features a sharp point and wide deep thread, which allows it to penetrate all timbers without a pilot hole. Since the screws are often used in structural applications, Reisser was required to use a Notified Body to conduct testing before a CE mark could be applied.

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Brick Awards 2013 shortlist revealed

The Brick Development Association (BDA) has announced the shortlist for the 2013 Brick Awards, one of the top design and construction awards in the country. There are 13 awards split into three categories: housing, building and landscape, and technical and craft. There is also the Supreme Award – the Brick Development Association Building of the Year, judged to be the best overall project from the 14 award winners. 2012 saw a new category in the annual Brick Awards, the Architect's Choice Award. This award is open to any architectural student or practicing registered architect from around the world who can vote for the shortlisted project they believe demonstrates the best architectural use of brick. It will be granted to the project which receives the most votes. Now in its 37th year, anticipation is growing for BDA Awards, which will be presented at London's Marriott Grosvenor Square Hotel on 14 November.

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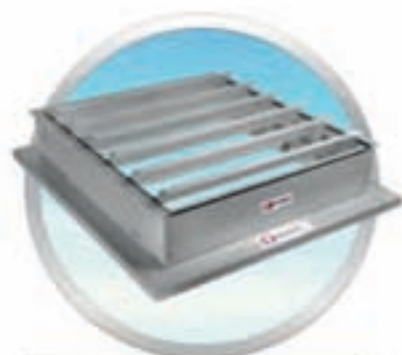
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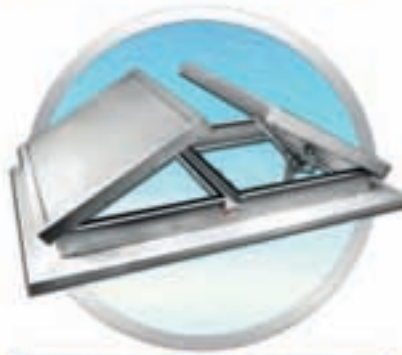
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Levolux tackles light, heat and sound



The recently completed, award-winning £30 million Hadyn Ellis Building at Cardiff University creates the ideal environment for world-leading scientific research teams to make progress, thanks to the inclusion of a multi-purpose Solar Shading solution, courtesy of **Levolux**. Designed by IBI Nightingale to achieve a BREEAM 'excellent' rating, the five-storey building is packed full of state-of-

the-art, energy-saving technology. Levolux was approached at an early stage in the project to design, manufacture, supply and install a custom solution for the Hadyn Ellis building. This comprised its Infiniti Fin system, Aerofoil Fins, Acoustic Fins and Ventilation Louvres.

Dickies support the Antarctic Trust



Dickies, the internationally renowned workwear brand supplied overalls to the Antarctic Heritage Trust for their Port Lockroy operation. The United Kingdom Antarctic Heritage Trust (UKAHT) works to conserve Antarctic buildings and artifacts, and to promote and encourage the public's interest in

its Antarctic heritage. Port Lockroy is not only an important natural and historic environment, but also a destination for many from around the world who want to come and learn more about the Antarctic.

01761 419419 www.dickieseurope.com



EnviroVent is evolving

EnviroVent has just unveiled their 'brand' new logo, a historic moment for the UK manufacturer as it continues to revolutionise the world of ventilation through its innovative and award-winning products. The EnviroVent brand was first launched in 1997 when the product range mainly consisted of the EnviroVent Positive Input Ventilation (PIV) unit. The idea at the time was to create a logo for the brand that provided meaning for the product. With this mind, a logo was designed showing the 'i' connecting into the 'V' to be synonymous with Positive 'Input' Ventilation. 16 years later, the EnviroVent brand has come a long way, far beyond the initial vision back in the 90's. Today, it represents a much larger, dynamic and innovative company, which manufactures an extensive range of products serving a broad array of market places and countries. In short, EnviroVent has evolved and now – so has its image!

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Hot form for Dickies riders continues



Rounds 4 and 5 of the British Sprint Enduro Championship took place on the English/Welsh border at Llangrove near Monmouth, bringing about the return to action of the Dickies sponsored riders. The hot and dry conditions made the riders work extremely hard on the challenging track. After securing the Youth Enduro World Championship in Romania a couple of weeks ago, Jamie McCanney chose to ride the 250cc two stroke in the Elite class. This meant that the Dickies sponsored champion rider was mixing with some of the

worlds top enduro riders such as Factory Husqvarna rider, Matti Seistola.

01761 419419 www.dickieseurope.com

Evolution Insurance Solutions Ltd



Evolution Insurance Solutions Ltd is an Insurance Broker authorised and regulated in the UK by the Financial Services Authority under FSA number 472438. Evolution Insurance Solutions Ltd is one of the UK's

a leading brokers in the 10 Year Structural Warranty market. If you are undertaking a self build project in the near future then you are likely to require a mortgage compliant warranty and site insurance. Evolution is a specialist in this market and will source the right product at competitive rates for your project.

01799 512 031 www.buildingwarranties.com



Neaco products in National BIM Library

Neaco's Spectrum range of modular handrails, balustrade, balconies and structural glass is now available in the National BIM (Building Information Modelling) Library, the construction industry's free-to-use online resource of NBS standard BIM content. Developed and managed by NBS, National BIM Library enables construction professionals to locate and download generic and proprietary BIM objects available in industry-neutral IFC format and formats compatible with Autodesk Revit, ArchiCAD, Vectorworks, Tekla and Bentley. It is the latest NBS initiative designed to provide, share and maintain quality information for the built environment. The service aims to host a comprehensive range of systems and products for various building elements to become the primary source of standard and proprietary BIM objects. Neaco's national sales manager, Richard Richardson-Derry, said: "With their class-leading lifetime guarantee and modular systems guaranteeing uniform quality and design accuracy, Neaco's precision-engineered products are ideally suited to National BIM Library, which is fast emerging as vital means of establishing a common approach to quality standards across the construction industry and encouraging consistency and best practice."

Evolution Insurance Solutions Ltd



Do you require a structural warranty/latent defect insurance? Evolution Insurance Solutions Ltd is one of the UK's leading brokers, a specialist in the 10 year structural warranty market.

Whether you are managing a self-build or a large scale residential or commercial development, you are likely to require a mortgage compliant warranty and site insurance. Evolution will be happy to source the right insurance product at competitive rates for you or your client. Please contact Ed or Rob on:

01799 512031 www.buildingwarranties.com

FEIN



FEIN is introducing 20 new variants of drill/drivers, combi drills and impact machines to its range of cordless tools. The addition coincides with the company expanding its battery platform program, based on batteries with capacities of 4 Ah and 2 Ah with SafetyCell

Technology, in 18 V and 14.4 V. FEIN is now offering a wide range of cordless tools for drilling, screwdriving, metalworking, glass removal and oscillating including the FEIN MultiMaster. FEIN has used its expertise in motor construction and electronics – both developed in house by FEIN – alongside the battery technology to guarantee high quality.

01327 308730 www.fein-uk.co.uk

Hultafors



From **Hultafors Tools** – the Award-winning hand tools manufacturer. This wrecking bar is only 7.5" long but is a really handy workmate on-site – ideal for getting awkward jobs done in tight corners on-site. Manufactured from high quality steel, it has unique functionality and a modern design with contact surfaces and thin ends that make it easy to use. It's great for pulling out nails, removing wood strips and general handy work. What's more the chisel's well-defined curves also minimise the risk of damage to surfaces. For more

information on the Hultafors' Mini Wrecking Bar, call the Helpline or download a digital brochure from the website.

Fisco Tapes Technology



Accurate, precise measuring from the UK's long-standing favourite brand of tapes. There's a whole new level of technology in these new tapes from Fisco – all of them stamped with the 'Hultafors Tools' Hallmarks of quality and reliability. You'll experience a whole new dimension of precision and ease of use in these two new ranges of Tapes – born, bred and made in the UK! There's the robust and durable 'PR' short tapes, which have ergonomic, high-impact cases with a rubber coating for optimum grip. What makes them so

much different and better than similar products on the market is the high-quality precision mechanism.

Rainwater harvesting from Polypipe

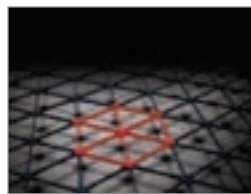


Polypipe offers Rainstream – a range of rainwater harvesting options. Ideal for new build, retrofit and already seeing major interest from the self-build marketplace, Rainstream is a very simple straightforward rainwater harvesting 'package'. The Polypipe Rainstream system is available as a gravity fed or a pressurised

system. Within a gravity fed system, water is pumped from the Rainstream tank to a header tank in the loft. The water is then fed to each appliance by gravity. Pressurised systems use a pump to feed water directly to the appliance or appliances on demand. Installation of a Rainstream system from Polypipe will reduce mains water usage by around 50 per cent.

01709 77 00 00 www.polypipe.com/building-products

Tensar achieves first CE Mark



Tensar International, a global leader in soil-reinforcement and ground stabilisation technology, has used its spirit of innovation to ensure even its most unique products hold CE Mark status. While the majority of manufacturers are able to achieve the mandatory CE Mark status for their defined product

type through the harmonised standard route defined in the Construction Products Regulation (CPR), companies such as Tensar, which offers a triangular geogrid structure that performs a function not yet covered by a harmonised standard, must take an alternative route to CE Marking. Recognising this, the team at Tensar opted to go down the alternative approvals process, achieving CE Marking for its patented TriAx technology via the European Technical Approvals (ETA) route.

Tensar welcomes new Vice President



Tensar International, a global leader in providing value-engineered solutions to stabilise and reinforce soil and pavements, has today announced the appointment of Tim Oliver as its new Vice President for Global Technology. Having spent more than 30 years with Tensar, Tim has held various roles – developing his managerial and business acumen alongside his technical expertise.

While Tim's tenure with Tensar has more recently seen him work from the company's UK headquarters in Blackburn, Lancashire, Tim has also undertaken a two year assignment as vice president of global marketing based at Tensar's Atlanta office in the United States.

Freefoam Building Products



Freefoam Building Products is delighted to announce that the new Fortex Clic Cladding was featured on prime time TV show *Double your house for half the money* with well know TV presenter and property guru Sarah Beeny. Homeowner Ben Barratt came across Freefoam and the

Fortex Clic cladding at consumer home improvement show Build It Live and instantly saw the potential for the exterior of his home extension. Fortex Clic cladding has a beautiful woodgrain textured effect and features an ingenious tongue and groove joining system that results in a neat attractive finish without the need for unsightly butt joints.

01604 591110 www.freefoam.com

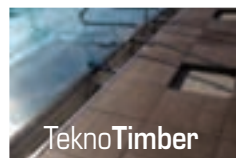
LEVATOMONO

a next generation paver system



LevatoMono pavers from the Deck Tile Co. are comprised of a 20mm single layer of loadbearing porcelain stoneware, with incredible technical and aesthetic features. Self-levelling and height adjustable pedestals allow for rapid installation over uneven sub-surfaces and any waterproof membrane.

- Ideal for roof terraces, balconies and walkways
- Floating floor – installation over single ply membranes
- Eternal finish – massive over life savings
- Zero maintenance
- Completely non-porous; stain resistant
- Slip resistance; BS pendulum test up to +65 wet
- Lightweight – 45kgs per m²
- Timber & stone effects – 50+ finishes available
- High load bearing- static load up to 1 tonne per paver
- Fire and frost-proof
- Height adjustable pedestal support system
- Hidden services with easy access



TeknoTimber



Stone Effect

dte
the deck tile co. ltd.

0845 2700 696
info@thedecktileco.co.uk
www.thedecktileco.co.uk



New concrete will save time and effort

A new range of ready-mixed concretes, HOPEFlow™, has been launched by independent concrete supplier Hope Construction Materials.

HOPEFlow™ is a suite of high-performance flowing concretes and screeds that can be placed in a fraction of the time of conventional concrete. The product also provides a top-quality surface finish that requires little or no remedial work.

HOPEFlow™ can be designed to suit any construction need and comes in several mixes to meet contractors' requirements. It is ideal for most concrete jobs, from foundations and floors to walls and columns. It flows easily around complex formwork and busy rebar, and there's no need for vibration so it's safer and quieter too.

Karl Lawes of Co-Dunkall Ltd, one of the

first to use HOPEFlow™, said: "Using HOPEFlow™ you can generally get a new build plot of 150m2 poured and finished within three hours, giving the customer the surface finish that they require. The service and technical support we receive from Hope is first class and we wouldn't hesitate in recommending their products."

Hope's Technical Director Mike Bull said: "A combination of additive technology and aggregate blend gives HOPEFlow™ its remarkable properties. After an intensive development programme and live trials with construction partners, we're delighted to already be introducing HOPEFlow™. Self-compacting concrete is not new, but the innovation is the ability to supply it almost anywhere in the country."






No compromises when you install THE ORIGINAL Hambleside Danelaw Dry Fix Valley Trough

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- Simple and conventional installation procedure.
- Neat and precise finish with 'close cut' appearance.
- Service life of 35 years backed by a 30 year guarantee.
- Dry Fix removes the risk of mortar failure.
- The range is suitable for use with ALL commonly available slates and tiles.





For more information, please contact us.
 Phone: 01327 701 910 | E-mail: marketing@hambleside-danelaw.co.uk | Or visit us at www.hambleside-danelaw.co.uk

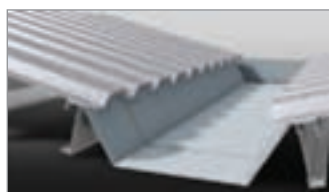
Helifix's new technical product datasheets



To complement its new technical brochure, 'Principles, Products and Applications', masonry repair specialist, **Helifix**, has launched a full set of individual product datasheets. These provide detailed information on every helical fixing in the range, identify those that carry CE Marking under the Construction Products Regulation and aid product selection, specification and

installation. Each of the company's new build and remedial wall ties, fixings, reinforcements and structural stabilisation products has its own dedicated product sheet detailing their applications, technical specifications, installation procedures and recommended tooling.

IKO Single Ply new rainwater system



IKO Single Ply has launched a new rainwater management system for commercial building projects using its Armourplan® PVC single ply membrane. Armourflow Coated Metal is a 2.4mm thick PVC faced steel sheet, specifically developed to

be site formed into high performance gutter sections. Each composite sheet incorporates a 1.2mm thick Armourplan® PVC membrane, factory bonded to a 1.2mm thick steel substrate. Together, they form a single ply material that is extremely resilient, yet malleable enough to accommodate almost any architectural requirement.

01257 488011 www.ikogroup.co.uk

LEVATO MONO, a next generation paver system

Pavers comprised of a 20mm single layer of load-bearing porcelain stoneware, with incredible technical and aesthetic features. Selflevelling and height adjustable pedestals allow for rapid installation over uneven sub-surfaces and any waterproof membrane.

- Ideal for roof terraces, balconies and walkways
- Floating floor – installation over single ply membranes
- Eternal finish – massive over life savings
- Zero maintenance
- Completely non-porous; stain resistant
- Slip resistance; BS pendulum test up to +65 wet
- Lightweight – 45kgs per m²
- Timber & stone effects – 30+ finishes available
- High load bearing- static load up to 1 tonne per paver
- Fire and frost-proof
- Height adjustable pedestal support system
- Hidden services with easy access

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E: info@thedektileco.co.uk

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- QUICK & EASY TO INSTALL

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West Midlands B63 3XB
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Facsimile: +44 121 585 2782

Email: buildingproducts.sales@lindab.co.uk

www.lindab.co.uk

Story Homes finds good value engineering



The benefits of utilising a bespoke attenuation solution from **Polypipe** have been demonstrated during a large-scale housing development near Penrith. By involving Polypipe's water management specialists early in the project, Story Homes achieved an underground attenuation solution which met the exact needs of their development. Furthermore the system was quickly accepted by United Utilities for inclusion into a Section 104 agreement. Polypipe offered a value engineered solution for the Clifton Hill Gardens development, which was an attenuation tank designed within a public open space to create a storage capacity of 95m³.

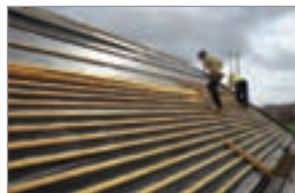
RigiSystems LokFold's eye-catching display



RigiSystems LokFold standing seam has been used to stunning effect on the new learning centre at Notre Dame Catholic College in Liverpool. All the walls have been clad in 0.9mm aluminium LokFold in a PVDF finish in luminous Moonstone Blue and Gold. The result is a kind of

living wall effect that changes colour when moving around the building and with changing light conditions. Around 1,500 sq m of LokFold were used in three different cover widths to enhance the dramatic visual impact of the project. RigiSystems Ziplok was also used on the roof of the new centre, which houses state of the art science, computer and design spaces. 01905 750500 www.rigisystems.org

SR Timber urges caution



100 per cent safety claims for roofing battens are lulling roofers into a false sense of security, warns **SR Timber**, one of the leading distributors of specialist roofing battens and the renowned 'Premium Gold' battens. As the industry has rightfully and successfully educated roofers into understanding that graded battens are much safer than ungraded battens and save both wastage and time, many roofing suppliers have sought to capitalise on this by promoting their product offering as being 100 per cent safe. Trading director at SR Timber, Shaun Revill, explains: "Most of the graded battens that are currently available are generally of a high quality, but they should never be marketed as 100 per cent safe. There can be faults that could potentially prove lethal."

Wienerberger donates pavers and roof tiles



Wienerberger has donated a selection of roof tiles and pavers to a Habitat for Humanity development in Toxteth, Liverpool, as part of its partnership with the international development charity. Donating its Hannover Buff Brindle clay pavers, the Chamfered Pavers will allow for continuity between schemes to be achieved. For the pedestrian ways, the pavers will be used in flexible pavements with sand beds and joints, and an enhanced bond pattern will be achieved with a finish that clearly defines each paver's shape. Wienerberger's Calderdale Slate roof tiles have also been donated, a cost-effective concrete tile, which gives a slate-like appearance with all the benefits of modern interlocking tile design.

Glazing Innovations Ltd
6 Barnes Close, Brandon, Suffolk IP27 0NY

Tel: +44 (0) 1842 816080
Fax: +44 (0) 1842 813558
Email: sales@glazinginnovations.co.uk

www.glazinginnovations.co.uk

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- Walk On Floors
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- Balustrade
- Shuffle Glazing
- Frameless Glazing



New life to university campus roof

Kemper System has helped Anglia Ruskin University transform a former office block into a prestigious faculty building thanks to its Stratex warm roof and Kemperol V210 cold liquid-applied waterproofing systems. The University's projects team opted for a warm roof and specified Kemper's Stratex system to upgrade the building's thermal performance while providing a durable waterproof solution. The installation team laid a Kempershield vapour control layer on all three roofs before beginning installation of Kemper System's Kempertherm insulation board. Although Kemperol V210 is impervious to standing water, a tapered insulation board was chosen to create a slight pitch on the existing flat roofs to help with water drainage and, once this had been primed, the installation team applied the Kemperol V210 liquid membrane. Laid in a single process, the V210 resin saturates a tear-resistant reinforcement fleece and cures to provide a seamless monolithic membrane that is permanently elastic, tough, UV resistant, and doesn't require any additional protective layers. 019 254 45532 www.kempersystem.co.uk

Powys Window Framework Award



Anglian Building Products has been awarded the window and door lots on Powys County Council's Maintenance Framework. Anglian will replace existing timber windows with PVC-u casement windows and composite doors to properties spread across the north

and south of the county. The council's framework has been developed in line with the Welsh Housing Quality (WHQ) standard to bring their properties up to a WHQ standard and will include the replacement of kitchens, bathrooms, roofing and electrics.

0870 428 074 www.anglian-building.co.uk

Pitched roof installation kits – MCS 012



Recent figures published by DECC show that the level of solar panel installations has seen a healthy improvement with 3,000 installations registered in the sub 50kW band. Although, an increase in installations tends to lead to a rise in leaking roofs being reported by householders. Manufacturers have

until March 31, 2014 to obtain Certification against the new requirements. Roof installation kits must be tested and a certificate issued by an accredited Certification Body such as the BBA.

01923 665300 www.bbacerts.co.uk

Garador



Garador has driven down the price of its up and over doors by as much as 40 per cent on selected models. The company recently completed a series of factory upgrades resulting in a much more efficient manufacturing process, and is delighted to be passing these savings on to customers. The 1,600 m sq extension of Garador's production plant in Yeovil, makes the factory the most modern of its kind in

Europe. The investment has provided valuable additional capacity and will help the company to continue providing customers with high-quality, reliable garage doors and mechanisms at an affordable cost.

01935 443791 www.garador.co.uk

Porcelain tiles for outside & in



If you're looking to give your next building project a magnificent, modern-looking finish, then porcelain paving is the perfect choice. These gorgeous tiles and paving slabs are made from real Italian porcelain, and they're available for both indoor and outdoor use – no

matter what you're in the process of creating, porcelain will slot into your plans very smoothly indeed. Out 2.0 paving is an innovative new product that's tailor-made for outdoor spaces, and Greensquares is the only UK company that stocks them! Each sturdy slab is two centimetres thick, making them far more robust than traditional porcelain products (which tend to measure in at around 9-12mm).

02920 371584 www.porcelainpaving.co.uk

Royale Windows



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Aspire to luxury design with new sliding folding door system

ESG Ltd has unveiled its latest innovation with the launch of the new ESG Aspire Sliding-Folding Door System, creating a truly 'responsive building material'

ESG Ltd has unveiled its latest innovation with the launch of the new ESG Aspire Sliding-Folding Door System, creating a truly 'responsive building material'.

A premium sliding-folding door system for interior use, the ESG Aspire offers quality and design excellence by combining switchable technology with a minimalist frameless design. Harnessing ESG's switchable glass technology, at the touch of a button, the glass can let light through or ensure complete privacy. The ESG Aspire offers a flexible design feature, which is ideal for dividing living and working space, and can also be combined with coloured interlayers to fit in with interior schemes. The frameless design has no visible wiring, no bottom track and the top track can be discretely recessed into a bulkhead, maximising unobstructed viewing. The doors concertina and fold back to give the room more space, light and air.

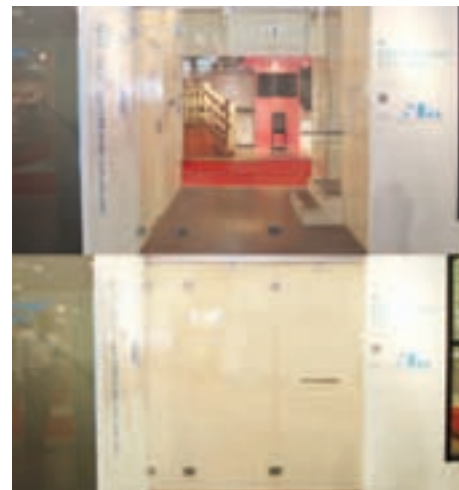
The standard Aspire range is available in two-part

or three-part options, up to 2,500mm x 2,500mm in size, with double-handed options up to 5m across. Other bespoke options are available on request.

ESG can supply and install the complete system including low voltage track, conductive fittings and electrical controls. The Aspire system can also be integrated with most home automation and building control systems.

Showcased at Grand Designs Live, the system is part of the technical glass manufacturer's range of controllable intelligent glass systems.

Commenting on the launch of the ESG Aspire Sliding-Folding Door System, Scott Sinden, managing director of ESG, said: "Our range of Controllable Intelligent Glass Systems shows how adaptable technical glass can be, and how it is being used for a range of architectural uses. We manufacture of all our glass here in the UK to a very high standard, with our own quality assured supply and fit service."



Contact ESG Ltd
0845 508 5445
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Lumen bespoke rooflights

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www.lumenrooflight.co.uk

LUMEN | The bright choice for architects



Get the bigger picture when choosing your rooflights

Paul Trace from Lumen Rooflight offers some practical guidance to choosing the right rooflight.

Rooflights are a hugely important element of any new build or renovation. They determine how much light is let into a building and can create bright, airy spaces that impact on the design and ambience of a room.

Getting the right design might be one of the first considerations when choosing your rooflight, but from a practical viewpoint, the most important thing to think about will be the physical viewable area of glazing.

This may sound obvious, but do not make the mistake of thinking that all rooflights are the same in this respect and just because you are buying a rooflight, for example, that is 1m x 2m, be aware that this doesn't necessarily mean that that you are going to have 2m² of viewing area.

It is important to understand that the amount of light that enters your property relates to the internal viewable size rather than the more general fixing size of the rooflight.

The most common mistake to make is to specify a rooflight that simply fits the space between your rafters. In fact the size of the actual rooflight is immaterial if all you are paying for is a large frame. The common perception is that if you buy more glass the viewing area will be bigger. Don't be baffled by edge-to-edge glass, it's what's underneath that counts. In other words, what's the point in having a window you can't look out of?!

On the same sized rooflight, the actual viewable glazing area between different manufacturers can be significant, and make a huge difference to the amount of light entering the building. To give an example if you take the Lumen LR6 Conservation rooflight with a rafter size of 946 x 1,249mm, of this, the actual viewable area is 876 x 1,189mm or 1.04m², which means that the rooflight has a viewable area 88 per cent.

You might be surprised to know that other manufacturers offering a similar rafter size could provide as little as 0.44m² internal viewable area. This could mean that you are paying for a rooflight that is predominantly (more than 60 per cent) framework or non-useable glazing!

The best advice would be to ensure that that actual fitting size is as close to the size of glazing you can physically look out of, and always make sure you are comparing apples with apples when looking at the price. Why pay for a rooflight that simply pads out the hole in your roof rather than performing its primary function – to let in light and ventilation.



Lumen Rooflight
0330 300 1090
www.lumenrooflight.co.uk

Acoustic window vents for excellent indoor air

As a specialist in natural and acoustic ventilation RENSON® provides window vents, louvre panels and continuous louvre systems that ventilate buildings and meet the acoustic requirements.

The Invisivent®EVO AK is a self-regulating thermally broken flap ventilator, that allows ventilation without any disturbing influence from outside noises. This acoustic version offers a maximum airflow of 12.9l/s/m at 2Pa and a sound reduction in open position up to 49dB.

RENSON® Sonovent® is a thermally broken acoustic vent, which can be installed on glass that has a thickness of either 20, 24, 28 or 32mm or at transom. This Sonovent® has a glass reduction of 135mm. Sixteen options are on offer though as there are four types, each with four different free area possibilities: Small, Medium, Large and XLarge (with an air slot of 10, 15, 20 or 25mm). This acoustic vent offers a maximum airflow of 26.7l/m/s at 2Pa. Equipped with non-combustible mineral wool as noise-damping material, it provides an excellent sound attenuation figure while in open position: up to 56dB.



Contact RENSON today on 01622 754 123 or email info@rensonuk.net. Visit the website www.rensonuk.net

Halo's FlushSash has style & performance



The latest innovative window system to come from Halo – a highly-specified brand of The VEKA UK Group – has been hailed as an innovation in heritage fenestration applications. The newly-unveiled FlushSash has

been designed to sit flush within its frame and mirrors the elegant window styles of the 19th Century, making it perfect for heritage and conservation projects. Yet, however traditional this window may look, it offers deceptively modern performance. The FlushSash comes from the System10 suite of profiles and offers strength, security and energy efficiency.

01282 716611 www.halo-uk.com

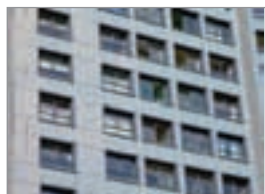
A brush with Rainline



Lindab has introduced, as an optional extra for its popular steel based Rainline gutters, Leafline a gutter brush system designed to prevent leaves, twigs and other debris from blocking the gutters and birds and rodents entering the loft space. Featuring a stainless steel wire core and long lasting

polypropylene bristles, Leafline is easy to install, no special tools or training is required, and it is virtually indestructible. Available in 3 metre continuous lengths and three diameters (100mm, 125mm and 150mm) Leafline is available in black or opaque.

Metal Technology improves the view



Metal Technology has supplied over £2 million (installed value) of their System 5-20Hi+ (high insulation) Tilt and Turn windows to Stockport Homes' recently completed, £24 million refurbishment scheme at Mottram St. More than 2,000 Metal

Technology windows were installed on four apartment blocks in a 12 month programme designed to upgrade the flats' energy efficiency and external appearance. Designed with sustainability in mind, the system enables the specifier to meet the latest thermal requirements of building regulations while giving the added benefits of ventilation and the ability to clean the windows from inside the building.

028 9448 7777 www.metaltechnology.com

Vertical sliding sash window debut



Profile 22 has made an important addition to its stand at the highly praised Building Centre. The stand is now displaying the company's brand new vertical slider window. Profile 22's new PVC-U vertical sliding sash window combines the classic look of an authentic sash window with the benefits of modern materials, being more thermally efficient than older sash window designs. The window has attained window energy rating of 'A' (WER) and BES: 6001 making it suitable for project developments in conservation areas and

where environmental concerns are a priority.

01952 290910 www.profile22.co.uk

New french sports and cultural centre uses RMIG solar shading

A new sports and cultural complex in France is using 4,000 sq m of solar shading manufactured from perforated aluminium by RMIG, to help reduce solar gain and energy consumption, while still allowing natural light to enter the building.

Designed by Paul Chemetov architects 'Le Vendéspace'© is located in Mouilleron le Captif, within the Vendée area of Western France and incorporates three large halls within the building's 21,000 sq m of flexible space, which can be configured to provide seating for between 1,000 and 4,900 spectators.

To ensure that high levels of natural lighting enter the building, the architect chose to cover the structure in energy efficient glass, but to also utilise an extensive solar shading system to not only reduce heat build up within the building, but also provide the structure with a distinctive external appearance.

The unique perforation pattern incorporated within the 'louvred' solar shading structure was created specifically for this project by Paul Chemetov architects and RMIG worked closely

with the contractor Nouvelle Metallerie Pavageau to ensure that the complex design could be manufactured to the exact specification.

As the pattern was a repeating design, RMIG produced a number of prototypes for approval by the architects before

creating a special tool for its advanced perforation press in the UK, which allowed every one of the shading louvres to be perforated identically.

RMIG produced a total of 7 kilometres of solar shading from 2mm thick EN5005 grade aluminium alloy, which has excellent weathering resistance, before being post formed and coated

in a copper coloured PPC finish by the contractor prior to installation.



Contact RMIG on 01925 839 600

Email info.uk@rmig.com

Or visit the website www.rmig.com

Composite doors get a new face



The Door Factory has developed a brand new concept for composite doors. The external face of the company's rebated doors can now be clad with a series of aluminium extrusions, which lock together to replicate a traditional door construction. This means doors can be finished with vertical, horizontal or diagonal panels. There are just three components;

bottom/mid-rail, top/side-rail and the plank panels. The aluminium facings are available in Golden Oak, Rosewood, Cedar and Walnut wood-grains, which are finished using the Decoral sublimation process. Powder coated RAL colours are also available, but on an extended lead time. The doors can be supplied complete in a Veka PVCu outer frame.

Open the door to style



Safeddoors' customers can now enjoy making an entrance with the arrival of two new tongue and groove style GRP composite doors; customers can choose from the Newmarket, the 'cool' new door on the block or the more traditional Chepstow which replicates a timber tongue and groove door. Appealing to differing style and tastes, the new additions to the Safeddoors range come with the quality and assurance that a homeowner would expect

from the UK's original composite door manufacturer.
reflections@safeddoors.co.uk www.safeddoors.co.uk



CompetentRoofers gains green deal

On July 12 it was announced that Competent Person Scheme, CompetentRoofers, had been fully audited by UKAS and has become an 'Accredited Body' for Green Deal and ECO work. It is another significant step for the roofing industry, since the scheme was approved in October 2010. The approval means that CompetentRoofers can now audit its members against the requirements of PAS 2030 and the Green Deal Code of Practice and register members as Green Deal Installers for roof insulation work, in addition to being able to self-certify that their roofing refurbishment work is compliant with Building Regulations (in England and Wales). CompetentRoofers members who register will also be able to display the Green Deal Installer Mark on their vans and promotional materials. Members will, therefore, be well placed to undertake Green Deal and Energy Company Obligations (ECO) work in the coming years. CompetentRoofers is already seeing an increase in the number of projects demanding 'PAS 2030 certification'; they expect this to increase and in time perhaps becoming the norm.

020 7448 3189 www.competentroofer.co.uk

Schueco folding doors. Just opening one tells you all you need to know



When you slide open a Schueco aluminium folding door, you can just feel the quality. Precision rollers ensure effortless, fingertip operation and yet multi-point locking means security is never compromised. Folded back into a neat stack to left or right, inside or outside, the doors – available in a wide selection of colours and finishes – give a huge clear opening of as much as 95%. When closed, they deliver exceptional levels of thermal insulation and weather-tightness, while flooding your home with light. For beautifully finished doors engineered to look good and to last, year after year, there's really only one choice. www.schueco.co.uk



Green Technology for the Blue Planet
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SCHÜCO

Domus underlines IBD's expertise



IBD Distribution has completed an installation of Polypipe Ventilation's Domus Radial Duct System at three properties in Ringwood. As part of a whole house air distribution system, Domus offers an innovative method of connecting individual rooms to an air distribution box using a

Ø75mm flexible semi-rigid duct. The Domus Radial Duct System was easy to install and provided IBD with a minimum 50 per cent labour saving on installation compared with traditional MVHR duct installations. It was ideal for these properties in Ringwood with its highly insulated, relatively compact timber frame construction.

Kingspan gives fire station Weymouth wave



A £6.5 million fire station has quickly become a local landmark thanks to its iconic wave-form roof, made possible with the use of over 5,000m² of Kingspan's high performance Thermarof TR27 LPC/FM insulation.

Weymouth Community Fire Station is the first purpose built community fire station in the UK and replaces the town's outdated coast-front fire station. One of the most technically challenging aspects of the project was the station's eye-catching wave-form roof. The design made Kingspan Thermarof TR27 LPC/FM the ideal choice for the building.

01544 387384 www.kingspaninsulation.co.uk

VBH stocks Maco Automatic Lock



Is a key really needed? VBH says, 'not with the Protect Z-TA lock range'. Hardware supplier VBH has added the automatic locking Maco Z-TA multi-point door lock to its range of keyless door locking solutions. Suitable for all Eurogroove

doors, Z-TA features three locking latches, two hooks and a central deadbolt. When the door is closed all three latches pull the sash in against the frame, providing compression over the full door height. A magnet in the latchplate then triggers the locking mechanism to engage the deadbolt and hooks. A single turn of the cylinder now renders the door fully secure, making Z-TA ideal for the elderly or infirm.

Yeoman Rainguard 'polishes' up colour range



In line with today's market demands, Yeoman Rainguard, the UK's market leader in rainwater systems has expanded its exciting colour range to now include a choice of metallic shades. The metallic colours have proven a popular choice for contemporary design and are available in the Aluminium range while the Vision Range holds a wide range of colours for both aluminium & GRP systems. Along with offering colours from a standard pallet, Yeoman Rainguard can supply any BS5252 (inc BS4800)

colour as well as the RAL colour range. A colour matching service is also available. Yeoman Rainguard systems also include a stunning choice of copper, zinc, stainless steel and traditional cast iron.

Potterton Commercial Boilers



Baxi Commercial Division has supplied five floor standing condensing boilers for a refurbishment of Wigan Town Hall's heating system, which has shown a 22 per cent energy saving over the year. It was important the heating system should be extremely flexible as well as energy efficient,

in order to accommodate a number of functions. The five Potterton Commercial Sirius 160kW floor standing condensing boilers were selected by consulting engineers NPS North West Ltd. Potterton Commercial's Sirius FS is a technically sophisticated range of floor standing, stainless steel condensing boilers, backed by a comprehensive five year warranty.

0845 070 1055 www.pottertoncommercial.co.uk

All new Digi-Line electric radiators



The Electrorad Digi-line range has been relaunched with all new electronics and components. They look and heat like regular central heating radiator but with some very clever, state-of-the art electronics to ensure ultimate control and minimum energy usage. The radiators are filled with a thermal fluid to

transfer heat to the whole surface area. The fluid is heated by 100 per cent efficiency electric elements, controlled by the most advanced thermostat electronics available. Features include: energy saving open window feature; surface temperature control and double panel radiator smart control.

0844 479 0055 www.electrorad.co.uk

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www.safetyworksandsolutions.co.uk



Highlighting the importance of the room 'stat

Horstmann is endorsing the latest research carried out for the BEAMA heating controls group TACMA, which shows that the installation of effective temperature controls can reduce home heating system energy consumption by up to 40 per cent through the installation of a room thermostat and TRVs. Importantly, it also estimates the installation costs can be recovered in a year or less. Horstmann had already revealed that the new installation or upgrading to one of its HRT4 series room thermostats would produce energy savings of 10 per cent and now, endorsed by these latest independent findings, the importance of fitting a 'stat as an integral part of the central heating control system is further highlighted. As Paul Lovegrove, sales director at Horstmann explains: "By introducing an upgrade package – a time switch working in combination with a room thermostat and with TRV's already fitted – TACMA's 40 per cent energy cost reduction becomes achievable and importantly, if the wireless option is selected, the upgrade is easy to install and programme without needing any hard wiring." A recommended upgrade would feature a wireless time switch such as the Horstmann CentaurPlus ZW working in combination with a wireless room thermostat – an HRT4-ZW.

New split Ecodan®



Mitsubishi Electric has added to its range of award-winning Ecodan® air source heat pumps with the introduction of three split air-to-water systems offering capacities of 4kW, 7.5kW and 12kW. The new outdoor units link to a dedicated internal hydrobox via refrigerant piping which allows all water piping and connections to be sited internally. The hydrobox, the 7.5kW model and the 12kW model are all manufactured in the UK. The 12kW model can be sited up to 75 metres away from the hydrobox.

01707 282880 www.heating.mitsubishielectric.co.uk

HWAT from Pentair Thermal Management



Pentair Thermal Management has recently been specified by MTT Limited, one of London's major sustainability and engineering practices, to provide its Raychem HWAT self-regulating heating cable for hot water temperature maintenance at 375 Kensington

High Street. A flagship development by St Edward, that offers a range of high spec one, two and three bedroom apartments and penthouses. Raychem HWAT heat tracing cables are designed to maintain hot water pipes at set temperatures, keeping the temperature constant on the entire pipe length without risk of overheating. They have an extremely long life cycle and their cut-to length feature makes them simple to install.



What is the RHI scheme?

"The government is paying my heating bill for the next 20 years..."



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Visit www.bc-energysolutions.co.uk



Evinox Room Controller is ENE3 compliant

As part of the Code for Sustainable Homes, credits are available when an ENE3 compliant energy display device is installed in the home. The aim of this is to promote the specification of equipment that displays energy consumption data, therefore empowering residents to reduce energy use. The **Evinox Room Controller** is classed as an energy display device and is installed in the home for use with the ModuSat Heat Interface Unit, which is connected to a communal heating system. The room controller provides an interface to enable the occupier of the home to set the heating and hot water temperature, set the time programmer and read the meter(s). In addition to this, the Evinox Room Controller now offers an ENE3 compliant option, which is capable of displaying all of the information required to gain credits for the Code for Sustainable Homes. This includes historical consumption data in a graphical format to enable residents to view information about their usage and compare different periods. This provides a number of benefits to housing associations and developers, primarily it removes the requirement to install a separate energy display device in order to gain credits towards the Code for Sustainable Homes.

01372 722277 www.evinox.co.uk



Internal view diagram of condensing air heater; a highly efficient condensing gas fired downflow forced convection air heater

Advances in warm air heating technology

By Glenn Page, managing director of Johnson & Starley

The domestic heating industry faces a huge challenge. In the UK, the overall level of energy consumed is of the order of some 1,500 TWh and of this total, heat energy accounts for almost half (46 per cent) at around 700 TWh. The domestic sector consumes over half of this heat energy (385 TWh). Concurrently, there are incentives to facilitate improvements in thermal efficiency and control – such as the Green Deal, Energy Companies Obligation (ECO) and, eventually, the Renewable Heating Initiative (RHI). There could also be some penalties if demand reduction through thermal efficiency is not achieved.

Fortunately, there are some innovative heating products and technologies already available to facilitate the thermal efficiency drive, which can be built into highly efficient systems by specialist manufacturers and suitably qualified and Registered Installers.

In the area of warm air central heating, condensing technology is now available and has the facility to provide domestic hot water (DHW). Existing warm air heaters with a DHW facility typically had a 3.5kW output (some up to 6kW) circulator water heater integrally fitted within the warm air heater cabinet. The circulator water heater had its own

burner and controls, but shared the same flue system as the warm air heater to evacuate the products of combustion.

To enable two separate condensing appliances in the same footprint is not practicable, but now a solution has been developed that uses one heat source to provide both the central heating and DHW – maintaining their independent usage patterns. This product also includes features that will meet the current and ongoing requirements of UK Building Regulations and the future requirements of the ErP Directives for warm air heaters and domestic hot water production.

Condensing warm air heaters are available to cater for both the replacement of existing non-condensing combined appliances in existing dwellings and for new build dwellings to lower carbon emissions and reduce other pollutants such as NOx.

Typically, standard efficiency combined appliances were produced with the domestic hot water requirements being a limiting factor, because in larger dwellings 3.5kW of water heating capacity would not be sufficient to meet the demand or recovery time required. With the new technology, the heat available for

Continued overleaf...

“A solution has been developed that uses one heat source to provide both the central heating and DHW – maintaining their independent usage patterns”

"Intelligent controls are now available to allow users to manage and control the usage of their warm air system carefully"

DHW is increased significantly and will not only meet the requirements of all existing installed combined appliances, but will cater for much higher domestic hot water demands in new built dwellings.

These new heaters have the potential to be coupled with other decentralised heat sources, such as heat pump systems and district heating systems (DHS)/heat networks. Renewable, decentralised heat sources can be highly efficient when supplying heat energy to suitable dwellings through a quality insulated distribution system, particularly in new build situations. Warm air central heating via a warm air heating interface unit (HIU), with DHW, is an efficient and cost effective way of heating dwellings on both existing and new systems. Space saving through the absence of radiators can be a significant benefit.

With warm air heating systems, another major benefit is the rapid initial heat up period, which is substantially less than half of that of wet systems. This permits certain life-style options, not easily achieved in properties with traditional wet heating

systems, and can lead to additional savings in fuel consumption. Intelligent controls are now available to allow users to manage and control the usage of their warm air system carefully.

In the field of condensing boilers the latest innovation is the integration of passive flue gas heat recovery (PFGHR) into the primary heat exchanger and within a standard size combi boiler cabinet. This type of technology comes at an affordable price with the small cost premium over standard boilers being recovered within an estimated three years. This new generation, high efficiency combi boiler naturally reduces plume as flue gases exit at only circa 19° when in DHW mode and reduces NOx to only 30 mg/KWh.

If the current estimated field population of ordinary condensing combi boilers (estimated at 7.35 million) was replaced by this new generation combi, it would reduce CO₂ emissions by up to 3.7 million tonnes per annum and fuel savings by up to around £850 million per annum. This approach and technology is available today at an affordable price.

Johnson & Starley has incorporated the latest proven cutting edge technology into its new range of WarmCair condensing warm air heaters





Model E660 and E678 - Innovation in Silicon Carbide

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SE Controls enhances fire safety and comfort at flagship apartment development

Berkeley Homes' flagship Woodberry Park apartment development in North London is using an advanced smoke and natural ventilation system from SE Controls to not only provide protection for residents in the event of a fire, but to also create a better environment by actively managing any excessive heat build up in corridors

Located on Seven Sisters Road, Woodberry Park is part of the innovative Woodberry Down regeneration programme being undertaken by the London Borough of Hackney, Genesis Housing and Berkeley Homes, which will eventually create almost 4,700 homes, combining social and affordable housing with private residential apartments.

SE Controls was commissioned to design and install a SHEVTEC® mechanical extraction smoke ventilation systems within two separate low rise private residential blocks within

Woodberry Park, which provide a total of 117 luxury apartments.

SE Controls

01543 443060

info@secontrol.com

www.secontrols.com

A key part of SE Controls' project specification and design brief was that the smoke ventilation system should also incorporate an 'environmental ventilation' mode, enabling it to monitor heat build up in communal corridors and lobbies while also managing the operation of automatic vents to reduce the temperature and introduce fresh, cooler air into the building.

In normal smoke ventilation mode, if a fire is detected by building's smoke sensors, the SHEVTEC roof mounted fan sets will operate while staircase vents and smoke vents located on the fire floor will open, enabling up to 5m³ per second of smoke to be drawn through the extraction shaft and provide a smoke free escape route for residents.

When operating in 'natural environmental ventilation' mode temperatures are monitored by ceiling mounted sensors in each lobby served by the smoke shafts. If the temperature exceeds a pre-determined

set point a roof mounted environmental ventilation fan is activated, which vents the warm air and replaces it with cooler air from outside.



Dynamic sun protection in aluminium

A building with large glazed surfaces facing south offers many advantages during the autumn, winter and spring. In the summer, however, it can lead to an uncomfortable indoor climate and irritating light reflection.

Structural solar shading and screens prevent this overheating, as they stop the sunrays before they come into contact with the glazed surfaces. No need for expensive cooling using airco. The view outside is respected.

RENSON® presents Cilium®, a dynamic sun protection system, that can be transformed from a vertical sun protection system in front of a window to a horizontal, open position above a window. This solution limits the overheating of buildings during the warm summer months and minimises the use of artificial cooling systems. During the cold winter months the low position of the sun allows the warm rays to enter the building under the retracted folding shutters, which limits the use of artificial heating.

01622 754 123 www.rensonuk.net



Warmup points of view

Many home owners do not appreciate how heating controls work with their underfloor heating system and the way it relates to and affects their energy usage. As a result they do not use the thermostat controls in a cost effective way. In new homes the selection of the thermostat is left to the house builder or installer, which reinforces their crucial role in choosing user-friendly and reliable controls along with the need to train home owners in its use. This is reinforced by Part L 1(c) of Building Regulations, which requires installers to explain to the occupier how to use their heating controls. As a manufacturer, Warmup also has a key role to play in making sure that its controls, like the tempoTM Digital Programmable and 3iE Energy-Monitor Thermostat, are user-friendly and designed for home owners to manage and control their energy usage and costs. Warmup also supports house builders and installers who have trusted it with their business by providing easy to understand user guides, technical support, online live chat, videos and tutorials.

www.warmup.co.uk www.warmup-projects.co.uk

SE Controls helps create a stimulating learning environment at Passmores Academy

Passmores Academy in Harlow is using a natural ventilation system from SE Controls, to provide a comfortable and stimulating learning environment for pupils while helping to reduce the school's carbon footprint.

Designed by Jestico & Whiles and constructed by Wilmott Dixon, the £23 million school provides places for 1,200 students and uses an innovative design where five arms radiate from a 2.5 storey elliptical atrium 'hub', allowing access to the flexible teaching facilities and recreation areas from the common central area.

A range of low impact design features and sustainable technologies have been incorporated in the BREEAM Very Good rated school, including solar shading, biomass boilers and energy efficient glazing together with the use of a natural ventilation strategy to improve and manage indoor air quality, reducing the need for mechanical cooling.

To provide the level of control and flexibility required for the school's natural ventilation system to operate effectively within the pre-defined set points, SE Controls supplied and installed 7 OS2



control panels to operate the rooflights, atrium louvres and entrance screens.

In addition, the company also supplied and installed the rooflight and window actuators through specialist glazing contractor, English Architectural Glazing and were responsible for commissioning the complete natural ventilation system, which is interfaced with the school's building management and fire safety system.

Darren Wainwright, SE Controls' project manager, explained: "Indoor air quality in schools is a vital consideration as it not only manages the temperature within the building, but more importantly, the level of carbon dioxide present, which has been proven to reduce learning ability if it exceeds

pre-defined national guidelines. Even the classrooms have CO₂ monitors fitted so that the level can be monitored and the windows manually opened, if required."

He added: "By incorporating natural ventilation and linking our control panels to the BMS, Passmores Academy can not only ensure that the air quality and environment is effectively managed but also that the energy costs are kept in check."

**Contact SE Controls today 01543 443060
or email info@secontrols.com
Visit the website www.secontrols.com**

Eliminator doing the biz



One of the unsung heroes of reliable heating and plumbing installations is effective water treatment solutions. Chris Jones, regional manager for Rothwells Plumbing Services for the north east: "When the new 'Eliminator' was launched by Sentinel, just knowing it was a Sentinel product gave us enough confidence to give it a sensible trial. It was clear the new Sentinel Eliminator Filter was making a big improvement to the quality of the installations.

The great feedback from our engineers has convinced us that fitting these new filters for our housing association and local authority clients and on all our ECO installations is a major benefit to us."

01928 588330 www.sentinel-solutions.net

Combi King uses Eliminator



Installer Brian King from Grimsby always uses Sentinel water treatment products: "Sentinel X100, X400 and X800 are part of our staple diet," says Brian. "So when Sentinel launched its new Eliminator heating system filter product last year we were happy to try that and see how we got on with it. We've used the new filter on every install we've done since and we can't see any reason to switch away from it. It's easy to fit, does the job well and we're getting no problems with them at all. Sentinel products are quite literally part of our family business!"

01928 588330 www.sentinel-solutions.net

Stelrad swings into action!



Radiator manufacturer **Stelrad Radiators** has introduced its brand new, curved vertical premium panel radiator to the UK market – the Stelrad Swing. The new

model is based on Stelrad's extremely popular Compact Vertex radiator but sees the addition of a one piece, curved steel front cover that gives it a modern and aesthetically pleasing designer feel. It comes in white as standard but can be specially ordered in up to 35 colours, making it an extremely attractive product for interior designers and architects, looking to match radiator colours with corporate or specific colour décor.

0870 849 8056 www.stelrad.com

New towel rail products join portfolio



Stelrad Radiators has unveiled two stunning additions to its collection of towel rails – range extensions to existing radiator designs. Available now from Stelrad Radiator stockists around the country are the Caliente and Concord towel rails, both high quality exquisite radiators in their own right but now part of the ranges that bear their name.

Increasingly known for the decorative radiators and towel rails they offer Stelrad is becoming a 'must look at' brand for new homes builders looking for stunning radiators.

0870 849 8056 www.stelrad.com

Taking care of your chimney liner

The latest in the series of technical tips from the experts at Specflue focuses on the traditional and important theme of the "safe and sound" maintenance of chimney liners and for easy reading is set out as a succinct set of key points:

Life expectancy and warranties

Considering the flue has been correctly installed, it should last the life time of the appliance; which is usually 10-12 years. The conditions of the warranty are taking into consideration the liner has been installed by a competent person, correctly sized and that the flue is properly maintained by only burning the correct approved fuels.

Appliance operation

Do not allow the appliance to slumber overnight, it is recommended to run the appliance at a controlled high fire temperature within each firing for at least 30 mins as recommended by manufacturer. Using a thermometer will allow you to monitor flue gas temperatures. It's been proven that slumbering of the appliance is a contributing factor to liner failure.

Fuels

All stoves are used to burn different fuels; make sure you're only burning the fuels recommended by the

stove manufacture/HETAS. Wood-burning produces traces of tarry matter and soot up the inside of the chimney, this can all be reduced by burning well seasoned air-dried wood. Burning 'green' or 'wet' wood is one of the biggest causes of chimney fires.

Warning

Carbon Monoxide has no smell therefore it's considered a silent killer, Carbon Monoxide is usually emitted from a faulty appliance, blocked chimney or burning incorrect fuels. The chimney should be inspected at least once a year to confirm all components and construction materials are in good condition.

Maintenance

Employ a qualified chimney sweep who will provide a certificate of sweeping instead of using chemical cleaning products. Solid fuel appliances should be swept twice a year. Ideally this process should occur

during the middle of the heating season and the end of the season.

Ventilation

Ventilation is required into the room containing the appliance to ensure the combustion is good and to enable correct and efficient working of the appliance and chimney.



0800 9020220
www.specflue.com

Trox introduces new X-FANS to UK



TROX has introduced its new X-FANS range of ventilation and smoke extraction products to the UK market and announces four new additions. TROX TLT axial, centrifugal, roof fans and duct installation fans are suitable for ventilation and smoke extraction in buildings such as airports, hotels, factories, offices, enclosed car parks and traffic systems. The four new product lines include: the X-FANS EC Roof

Fan range for ventilation; the X-FANS Impulse Jet Fan range for smoke extraction from galleries; the X-FANS Jet Ventilation System for enclosed car parks; and the VDS VentilatorDiagnoseSystem.

New pressurisation units released by Wilo



Wilo has announced the release of a new series of Pressurisation Units for closed heating and chilled water systems for use in commercial and industrial premises. They are available in four ranges to suit every installation – from open pack base mounted, comfort wall and floor mounted and twin systems able to control both heating and chilled systems. Each range has one and two pump models available with a selection of pumps to suit a range of static requirements. Wilo pressurisation units

are designed to keep sealed MTHW (up to 90°C), LTHW and chilled water systems at a predetermined pressure by topping the system up with wholesome water via an AB air gap.

01283 523000 www.wilo.co.uk

Vent-Axia shortlisted in Energy Awards



Vent-Axia has made the final shortlist in the prestigious Energy Awards 2013, which recognise and reward companies leading the way in reducing carbon emissions. Vent-Axia's Lo-Carbon Kinetic Plus E, Mechanical Ventilation with Heat Recovery (MVHR) system has been

selected for the shortlist in the 'Energy Efficient Product of the Year' category. Launched in July 2012, the Kinetic Plus E is the best performing MVHR system listed on SAP Appendix Q. It boasts a specific fan power as low as 0.4W/l/s, combined with 94 per cent heat recovery, and provides valuable reductions in Dwelling Emission Rates.

0844 856 0590 www.vent-axia.com

Xpelair launch Contour



Provider of ventilation solutions Xpelair has launched the new Contour portfolio of discreet extract fans. Available in both AC and DC versions, the new range provides a solution for all domestic bathroom applications. Contour is the first 100mm extract fan in the Xpelair range to feature a curved fascia over the grille for greater aesthetic appeal. With an external projection of only 48mm and a gloss white finish, the modern design of the fan allows it to blend seamlessly with any bathroom décor. The unit comes complete with easy fix 'Quick Clamps', making it easy to install and access for maintenance.

0844 372 7750 www.xpelair.co.uk

Xpelair launch compact MVHR solution



Xpelair Ventilation Solutions has launched the Xcell Compact XR – one of the smallest and most energy efficient MVHR solutions on the market. Part of Xpelair's popular Xcell range, the new Compact XR offers installers the opportunity and versatility to fit the solution into the increasingly tight ceiling and loft voids of

modern homes. The compact profile of the unit means that users no longer have to lose out on valuable storage space that was often the case with other MVHR solutions. Key efficiency features include EC motors, backward curved impellers and its ability to recover 91 per cent of heat from extracted air.

Abode



The Abode Matrix GR10 sinks offer designers a unique flexibility – under-mounted with the tap deck exposed, covered or fully inset into the worktop from above. Matrix GR10 sinks are manufactured from advanced acrylic materials – the black material has a metallic granite fleck, adding additional sparkle. The bright white granite sink offers a tough durable and easy clean finish that will co-ordinate perfectly with any kitchen décor. The classically designed

Matrix GR10 comes complete with the unique Abode Orbit waste fittings, overflow, fixing and pipework kits, as standard.

01226 283434 www.abode.eu

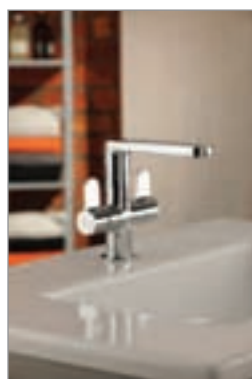
Amina iQ Developer Series



Amina is delighted to announce the launch of its brand new iQ series aimed at bringing truly invisible sound to the volume developer market and broadening its appeal to many more multi-room audio applications. Building on the technologies introduced for its flagship Evolution range launched in 2012, Amina has utilised its Opti-Damping and Opti-Drive Technologies to create an all new, aggressively priced, invisible speaker family. Using the company's vibrational surface technology, the iQ series provides high clarity room filling sound with a remarkably even frequency response from 112Hz-20KHz.

01480 354390 www.amina.co.uk

Bliss bathroom basin taps from Abode



The new Bliss range from Abode has been created especially for the UK market and forms part of a new collection of bathroom products which have a strong, yet versatile design. There are several basin tap options available, making Bliss suitable for all styles of bathrooms. There are three heights of monobloc mixers, dual handle mixers with flat planate spouts with paddle style levers, plus a wall mounted mixer – all available in chrome finish.

01226 283434 www.abode.eu

apollo monza aluminium column radiator



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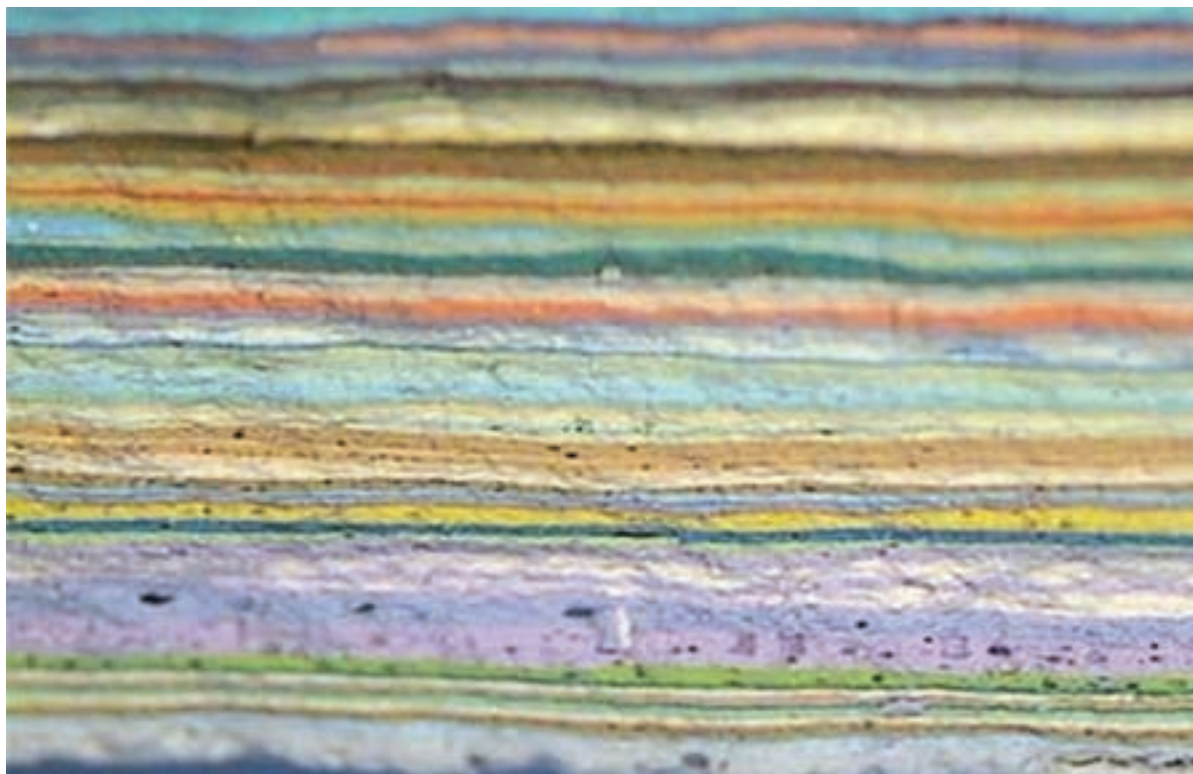
www.apolloradiators.co.uk



Anglia Fireplaces

An innovative and stylish new range of eco-friendly pellet stoves from Italy has launched in the UK. Eva Calò offers elegantly designed stoves which are economical and efficient to run, as well as being clean and easy to use. The range is being offered exclusively by **Anglia Fireplaces**, one of the UK's largest fire retailers and distributors well known for sourcing the most innovative and environmentally-friendly stoves with outstanding efficiency rates. Priced from £2,000, there are 39 stoves in the Eva Calò range, including stunning inset fires to slim and stylish stoves which sit flush against a wall. There is a wide selection of colours to choose from, including rustic red, black, ivory, rustic amber, honey, cream and aluminium. All the stoves include a fully programmable electronic control panel. With a yield of over 90 per cent and typical output ranging from 4-27 kW, users can regulate the stoves to come on at set times of the day. There is also a manually recharged mechanical system to ensure that the stoves will automatically stop in case of extreme temperatures.

01223 234713 www.fireplaces.co.uk



Multiple layers of paint shown here under the microscope (left). These can present a significant fire risk, which is reduced with the use of flame retardant coatings; specialists take a sample flake of existing paint build-up away for microscopic analysis, to ascertain the most appropriate coating system needed to offer the optimum flame retardant protection (bottom)

Specifying historic shades with flame retardant protection

When choosing paint for historic buildings, specifiers can choose products that offer a double duty, with high technology flame retardant paints available in historic colour palettes. Debbie Orr, Crown Trade brand manager gives an insight

Protecting heritage properties needs to go more than skin deep. With flame retardant coatings in historic shades, it is possible to achieve an authentic look for period properties with the reassurance of a high technology formulation designed to buy precious time to protect life and property.

Over many years, a build-up of multiple layers of conventional paint over any surface can become a significant fire risk, particularly in corridors, stairwells and other areas forming part of a fire escape route.

Flame retardant paints work by limiting the oxygen around the flames through the release of non-combustible gases, and providing a barrier to the flammable paint layers or substrate beneath.

Debbie Orr, Crown Trade brand manager, said: "With the preservation of historic and prestigious buildings so important, flame retardant systems offer a double duty – delivering a surface in-keeping with the décor of the interior environment, in a coating that slows down the spread of flame.

"Ultimately specifiers can depend on colour expertise and have complete confidence in the authenticity and accuracy of historical colour palettes, while at the same time benefitting from

very latest advances in coating technology.

"Depending on the nature of the renovation project, property owners or managers wishing to specify the application of flame retardant coatings can have an assessment of the age and condition of

the existing painted surfaces.

"This can include taking away a sample of the existing paint covering away for analysis, as this will show what coating system needs to be applied to offer the optimum protection."





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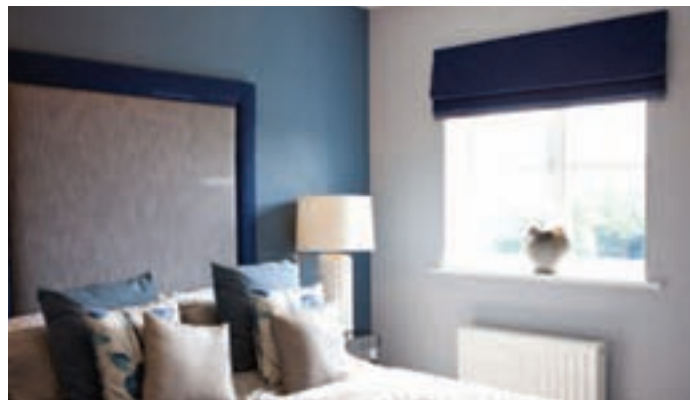
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Crown Trade helps Miller Homes build a greener future

Miller Homes has joined forces with Crown Trade to enhance customer satisfaction and improve sustainability. Miller Homes wished to avoid any potential issues associated with the yellowing of conventional solvent borne glosses – and it turned to the high performance products from Crown Trade for a solution.

Crown Paints' national construction manager, Jim Sweeney, recommended the use of Crown Trade Acrylic Satin Finish as an alternative to traditional solvent-based gloss paint products.

Used on all woodwork including doors and window sills, the virtually solvent free alternative to traditional satin finishes is helping Miller Homes reduce its carbon footprint by approximately 20 per cent.

As a quick-drying product, the acrylic satin finish also offers a smooth, elegant finish for interior and exterior wood as well as properly-primed metalwork.

Not only is the switch to Acrylic Satin benefiting Miller Homes' sustainability programme, it also enhances customer satisfaction as the product retains a crisp, white finish and redecoration cycles are extended. The product also offers a better match to pre-finished trims and features in new homes too.

Jim Sweeney said: "When Miller Homes asked what Crown could do to help them lower their carbon footprint, as well as maintain a superior result, we had no hesitation in suggesting this product. The Crown Trade Acrylic Satin Finish is a non-yellowing paint, which is quick drying and is being applied throughout new build homes, on room doors, cupboard doors and window sills."

Miller Homes is also using water-based Crown Trade Covermatt for interior walls. A specially-formulated emulsion, geared up for the decoration of new build interiors, this quick drying paint allows walls to breathe, making it ideal for new plaster.

Lee Gaskin, procurement manager for Miller Homes, said: "Moving to water-based products is a positive step for Miller Homes as a company."

"The use of the Acrylic Satin Finish allows us to provide an end result that looks just as good as using a gloss. It is also far more beneficial to the environment and our clients benefit from longer lasting colour on woodwork and, therefore, an extended redecoration cycle."

"We already use Crown Trade Covermatt on our interior walls and we are delighted to extend our partnership with Crown Trade to include the Acrylic Satin Finish."

For more details please contact the Crown Trade customer relations team by calling 0845 389 9583, emailing info@crowntrade.co.uk or visiting the website at www.crowntrade.co.uk

Designing balustrades that deliver style with safety and durability

While aesthetics are obviously important, a balustrade project must also be fully compliant and fit for purpose for the particular application, whether that's apartments or an airport. Nick Haughton, marketing manager at Sapphire Balustrades, offers advice on designing balustrade solutions that deliver style with safety and durability

Specifying high quality balustrades involves much more than simply creating the right look. Before selecting a system and style of balustrade there are a number of important factors that have to be considered, such as how the nature of the project application and environment might influence the design and what regulations apply and must be met. These factors can cover anything from assessing the risk of vandalism or corrosion to providing a solution to suit people with disabilities. Even issues such as restricted site access can have an impact on the design.

Regulations

Balustrade designs must comply with relevant British Standards relating to structural integrity and design loads, and Building Regulations such as Document M, to ensure they meet the needs of all users irrespective of age or physical ability. Failing to comply with these requirements can have serious consequences. Apart from a potentially costly project delay if a design is refused by planners or building control, inappropriately designed or installed balustrades can result in fatalities or permanent injuries.

Balustrades

Balustrades provide a vital protective barrier where there is a change in level greater than 600mm in dwellings and 380mm in commercial applications. Balustrades for communal stairways or balconies, for example, should be designed to avoid the risk of persons falling through gaps. In effect, this means that balustrades should not have gaps which permit a sphere of 100mm diameter to pass through, and in residential applications this includes the 'triangle' formed by the tread and riser. It is also important when designing balustrades to ensure that they are not easy to climb, particularly by children. These are just a few of the technical design considerations, and it should be noted that different parts of a building or staircase within the same project could contain areas that require different design considerations.

Handrails

Handrails assist in the access and use of buildings and, like balustrades, their design is covered by a raft of regulations relating to aspects such as height,



'A stainless steel handrail on a structural glass balustrade creates a light and spacious effect'

colour, positioning, and dimensions. In most situations, handrails should be positioned on both sides of flights of stairs and landings, and cater for all users. While standard heights should be between 900mm for ramp or flight pitch lines and 1,100mm above the landing, a second handrail for children at 600mm high may be required in some applications. In addition, handrails should terminate in a way that reduces the risk of clothing being caught. A contrast in colour and luminescence to their surroundings can enhance visibility, while external handrails should not be cold to touch.

Continued overleaf...



Design

There is extensive scope in terms of materials, profile shapes, fixings, and detailing, to create a unique style for balustrades for balconies or stairwells, while still ensuring regulatory compliance. Handrails can be manufactured in a wide variety of finishes, including practical satin polished stainless steel or a 'mirror' polished finish, or be powder coated to any RAL colour to enhance durability and complement

interiors or external facades.

A stainless steel handrail on a structural glass balustrade, for example, creates a light and spacious effect. Laminated toughened glass can be used for the ultimate in glass panel security, and for added visual appeal the laminate interlay can incorporate colours or patterns. Timber handrails are another popular option as they are not cold to the touch and can be produced from any sustainable timber

including ash, oak, and cherry – a timber effect coating can even be applied to metal handrails. And there are some exciting new features such as LED lighting, which can be built into handrails.

Support

Achieving the right handrail or balustrade solution is about more than just aesthetic appeal. With so many technical considerations and design possibilities, it's not surprising that many architects find specifying balustrades a daunting task. Finding a supplier with the expertise to guide you through the whole process and ensure that nothing is overlooked can be invaluable to completing a successful balustrade project in terms of looks and lifetime costs and performance.

An elegant solution to an age old problem.

This modular unit incorporates all the facilities needed to wash, soap and dry your hands standing in the same position, including the latest technology for infrared sensor taps, high speed low energy hand dryers and infra-red foam soap system.

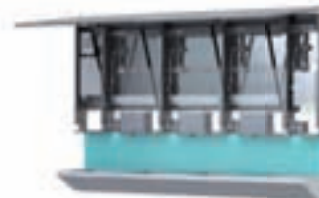


t: 01424 20 22 24 www.dolphindispensers.co.uk



Dolphin Behind Mirror complete washroom system

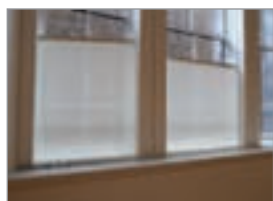
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Gallery showcases Faber's imaginative work



Faber Blinds worked closely with the architect and contractors at the Pace Gallery in the refurbished west wing of the Royal Academy of Arts to provide a bespoke blackout and screen solution for its exhibition spaces. Two motorised roller blinds were fitted in each window space, blackout

to the rear with screen to the front, both drawn vertically upwards by tension cables with the fabrics running in recessed side channels. The EOS 500 tensioned bottom up, motorised roller blinds are controlled by a central Hunter Douglas EOS Touch system linked to a GPS weather station to provide the appropriate shading for the exhibitions.

01604 766251 www.faberblinds.co.uk

Sun control system from recycled bottles



The new **Hunter Douglas EOS** 500 roller blind collection includes GreenScreen® Eco, which consists of 100 per cent recyclable polyester fibres, and the GreenScreen® Revive™ material produced from recycled plastic bottles. Hunter Douglas is the only manufacturer using these sustainable materi-

als for project-based light and energy control. All of the GreenScreen product lines are compliant with the internationally recognised Greencode classification scheme for environment-friendly textiles. They also contribute to the LEED certification of buildings. The GreenScreen collection can be used in EOS 500.

01543 275 757 www.hunterdouglas.co.uk

New wood burner from Eurostove



The new Westfire UniQ 33 wood burning stove, from **Eurostove**, is a handsome and sleek design that sits above floor level to give a warm visual aspect of the fire and also project the heat more efficiently into the central airspace of the room. Eurostove says that it's important to choose the positioning of the UniQ 33 to create a focal point and also appreciate the glass side panels with dark glass at the base and clear glass at the top so the flames and illumination can be seen

from three aspects. As opposed to open fires, wood burning stoves deliver 80 per cent efficiency with only 20 per cent of the heat vented through the chimney – the opposite performance statistics to an open fire.

01934 750 500 www.eurostove.co.uk

Ellis Furniture



New Reflection Gloss White features a 22mm lacquered handle-less door and is available across the entire fitted and modular cabinet offer. Shown here, Reflection Gloss White features plenty of on trend curve appeal. A white carcass rather than a contrasting carcass and a

solid surface worktop are recommended if choosing the curved end panel finish. The fitted WC and basin unit perfectly complement the large modular unit to the right of the image. All providing plenty of essential, stylish storage space. The curved corner mirror with 18mm backboard and 4mm unbevelled glass can be hung vertically or horizontally.

01484 514 212 www.ellisfurniture.co.uk

Encasement chosen for new Hove town hall customer services centre



Bespoke 'Forma' aluminium column casings from **Encasement** have been used to conceal interior structural columns at the new customer services centre in Hove Town Hall. All of the casings supplied and installed by Encasement are finished in RAL 5015 Blue PPC finish and stand 2,700mm high, however two of the casings are designed to not only conceal structural columns, but also act as features within the building. While the standard casings used on the project are 600mm diameter circular casings, the two feature column casings were manufactured as two semi-circular halves, which are joined by a recessed black coloured panel on each side to give a final diameter of 1,600mm. Every column incorporates a matte black skirting collar, which integrates with the finish on the contrasting magenta coloured reception desks within the main area, while the top of the columns finish flush with the suspended ceiling. The Hove Town Hall facility is one of two customer services run by Brighton & Hove Council with the other being located at the five-storey Bartholomew House in Brighton, where Encasement also supplied a series of bespoke column casings for the £1.8 million refurbishment project. Encasement's MD, Martin Taylor, explained: "It has been great to be involved in both the Brighton and Hove customer service centres. The interiors of the buildings are tailored to the needs of local people and the space available in each location."

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Fireco's DMS as fire safety system of choice

Further education college, Stockton Riverside College has chosen leading fire safety provider, **Fireco** as their fire safety system of choice, with the installation of its Deaf Message Service (DMS). The College's health and safety team was looking for a fire safety system that could help alert students and staff with impaired hearing to be notified if a fire alarm went off on the campus. They had previously used a deaf pager system which was linked to the college's fire alarm but this had ceased to function and they were looking for a system which had higher user capacity and was discreet and suited its students' modern lifestyles. Fireco's Deaf Message Service (DMS) was the ideal solution. Allowing a deaf or person with impaired hearing to receive text messages alerting them to any fire alarms, the system brings the students and staff at Stockton Riverside a discreet way of dealing with fire alarms.

0845 241 7474 www.firecoltd.co.uk



Forbo's Sarlon vinyl is a sound choice for high school

As part of a major development project at Alsop High School in Liverpool, the new ground floor corridors and canteen area have been fitted with **Forbo's Sarlon Canyon vinyl**, delivering 15dB impact sound reduction, excellent indentation resistance and an R10 slip resistance rating. Architects at 20/20 Liverpool specified the versatile and subtle tonal design – particularly popular in the education sector – from Forbo's new BREEAM A/A+ rated Sarlon acoustic flooring collection. Marmoleum was specified as the main flooring component for upper levels of the building, providing a hard wearing, resilient and cost effective flooring solution, which is also helping to meet demanding sustainability targets. Forbo's Safestep R12 was installed in the kitchen to protect staff from slip hazards associated with spillages. Safer Osmani, business manager at Alsop High School, said: "The school redevelopment project has created a fantastic new learning environment for our students that we are really proud of. "The focus throughout the project was on creating a high quality facility with a forward-looking interior and the smart flooring products from Forbo have certainly helped us achieve this."



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Eurostove are exclusive UK importers and distributors of WESTFIRE, SAEY and ORANIER woodburners and multifuel stoves. As well as a selection of other quality brands of wood boilers and cookers, Eurostove also manufacture MENDIP stoves.

The range offers a wide choice of distinctive styles from traditional to contemporary to warm the heart of any home. To find out more including your nearest dealer, visit our website or call to speak to an advisor.

01934 750500 | www.eurostove.co.uk

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For more information on our products, contact us or visit our website

T: 0845 296 9221 E: sales@fireretardantuk.com W: www.fireretardantuk.com



Ultra Tile creates stylish first impression



Having used **Instarmac's** Ultra Tile products for over five years, Tile Style are happy to endorse their reliability and outstanding finish, and chose to use the brand on their recent project in Manchester. They were commissioned to install 600 x 600 grey floor tiles in a 350m² office block reception.

The project was completed in six weeks and included subfloor preparation. Levelling compound, Level IT one HDB was applied to prepare the substrate prior to installing the tiles. The product is supplied in 25kg bags and can be pumped making simple work of large areas. The levelling compound's formulation is rapid setting, non-shrink and protein free.

01827 871871 www.ultratileadhesives.co.uk

Kitchen trends 2013



When deciding on the right kitchen for the job, be aware that a white kitchen has been one of the most popular kitchen colours over the last decade. This prolonged popularity with consumers and tradesmen alike, is largely due to the versa-

tility of the colour. White units match with anything – from wood flooring and worktops to stone and corian. **Magnet Trade** has a wide range of white kitchens to meet the requirements of all projects, from the modern classic Innsbruck kitchen to the new Integra White kitchen. Customers will find that these kitchens aren't just stylish but practical too, so allay any fears that a white, contemporary kitchen is a compromise on useability.

www.magnettrade.co.uk

Kaldewei – Sound Wave



Sound Wave is the first audio system for **Kaldewei** 3.5mm steel enamel baths that plays music from Bluetooth-enabled devices such as tablets, smartphones or laptops. With the bath acting as the sound box, it provides an audio experience with a difference – with or without water. Simply pair up your

Bluetooth device (up to a maximum of eight per household) to play your favourite tunes. And, if you are already the discerning owner of a Kaldewei bath, then fear not as all models can be retro-fitted with Sound Wave.

0800 840 9770 www.kaldewei.co.uk

Lustre Integral moulded basins and worktops



Mereway Bathrooms offers attractive, innovative products and their stunning collection of Lustre range comprises 14 avant garde finishes in beautiful marble, granite, sparkling and solid colours that allows infinite design possibilities for bathroom designers. Integral moulded basins are right on trend currently and the Lustre collection offers seven beautifully formed moulded

basin designs in oval and square shapes and in both inset and semi counter-top styles. A superior product that's made to last; Lustre surfaces boast a high quality construction while offering consistency in colour and finish.

0800 028 4466 www.merewaybathrooms.co.uk



Nuway Connect keeps floors clean

With over a quarter of a million visitors every week, Castle Quay Shopping Centre in Banbury places a very high priority on public safety. Nuway Connect, one of **Forbo's** new flexible engineered entrance flooring systems has been installed in the six entrance areas of the Centre to keep interiors clean, dry and safe. Operations manager Nick James knew that he needed to specify highly effective entrance matting that would help to maintain the appearance of interior floor finishes and prevent slip hazards, and, given the volume of foot traffic, that could withstand intensive use. The system also had to provide safe and easy access for disabled visitors. A versatile mat design developed to provide a very high level of moisture absorption, Nuway Connect is available on open and closed constructions and in heights ranging from 10 to 22mm. Unlike most 'engineered' entrance flooring, Connect mats in an 'open' construction can be rolled up making it easier to clean matwells.



Washroom solutions from Latham's

As part of its new range of washroom solutions, **James Latham** is now offering moisture resistant, high performance melamine faced chipboard (MFC) as well as a range of matching compact grade laminate (CGL). The moisture resistant MFC incorporates two decorative melamine surfaces, which are bonded to both sides of the high density chipboard under high pressure and temperature. They will be offered in 10 different decors. Also available, is a selection of matching compact grade laminate (CGL) in 14 different decors. Compact grade laminate offers the ultimate performance in the most demanding environments. The panels are extremely resistant to impact and have surfaces and cores that are totally impervious to water. Both of these new range additions will be colour co-ordinated with Latham's existing range of high pressure laminates (HPL) and 2mm thick ABS edgings.

0116 257 3415 www.lathamtimber.co.uk

iNELS RF Wireless Control System



Scolmore continues to develop its Wireless Control Systems and has just added two new products that will enhance its

capability. The new iNELS RF 13A Switching Socket (RFSC-61) simply plugs into a standard UK 13A socket outlet to provide a wireless switching facility – making it easy to control table and floor lamps for example without the need for hard wiring behind a socket. The unit can be easily paired with transmitting devices, and can be controlled by up to 32 transmitting devices eg key fobs, wall switches, RF Pilot and RF Touch.

01827 63454 www.scolmore.com

Kinedo Moonlight from experts at Saniflo



Saniflo has a wide range of stunning cubicles to suit all budgets and bathroom designs. The Kinedo range of superior quality shower cubicles includes Kinemagic, Horizon, Moonlight, Kineprime, Epsilon, Consort and Showermatic. With its understated elegance and neutral styling, the Moonlight (pictured) will blend into any setting, whether classic or contemporary. Great for those who want the convenience of fitting a shower cubicle but still want the freedom to influence the

look of their bathroom, it allows you to accommodate the choice of your own shower control.

020 8842 0033 www.saniflo.co.uk



Rustic Modern Oak

Renolit Cramlington Ltd is pleased to announce the introduction of Oceanic, a vibrant oak which is full of character, into the Renolit 3D stock range. Oceanic is a modern oak with rustic details provided from subtle small knots, planking, tight cathedrals and minute wood graining, which combine to achieve the overall success of this superb classic oak. The design is complemented with the highly realistic Woodtouch surface finish. Oceanic is available in two opposite colour ways to offer quite diverse options within the ever popular oak category. Renolit Alkoren Oceanic A 46743 has a pale natural colour with a lighter underlying background and contrasting slightly stronger knots which provide realistic detail. While Renolit Alkoren Oceanic B 46771 on the other hand is dark with green under tones. It's sophisticated and dramatic styling is enhanced by the wider patterns of time deepened tones, which contrast with paler elements from within the design. Renolit is the market leader in 3D thermoforming films. The company's surfacing products have been developed to meet the highest standards of design, quality and performance. The Renolit 3D Stock Range is presented as two individual brands, each with distinctive and appealing product characteristics.

01670 718122 www.renolit.com/design

Firm has designs on new kitchen projects

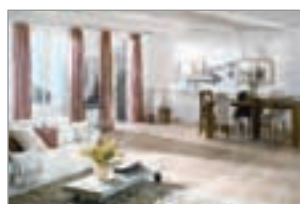


Project:ff&e, the specialist provider of furniture, fittings and equipment, has been appointed to a trio of new projects and won a FIRA Innovation award as a result. The Halifax-based company has been chosen to use its innovative new Fortis kitchen on three flagship projects. The brief involved

providing water-resistant kitchens without a cost premium. Because there was no existing product on the market, Project:ff&e created its own unique designs. The Fortis range works by reducing liquids getting into the joints between two pieces of worktop and also running down the front of a unit, getting into the drawers and underneath.

0843 289 5227 www.projectffe.com

Natural interiors with Osmo



Wooden flooring remains both a stylish and practical solution for modern interiors, but requires a protective finish.

Osmo UK provides a sustainable finish specifically formulated to combine perfect protection and creative design.

One of the most attractive qualities of

choosing wood for interior application is its unique and rustic appearance. Osmo's Polyx-Oil wood finish is designed to accentuate the natural beauty of timber, retaining its organic appearance, while adding comprehensive protection from within. With fashions and tastes continually changing, Osmo has also developed Polyx-Oil Tints which add colour to the original Polyx-Oil line-up.



*Fabricator - Moblaje Anchel, Spain,
Material - HI-MACS Alpine White*

James Latham

Interior designers and architects looking to achieve limitless creativity with their kitchen and bathroom projects – either in a commercial, hospitality or residential environment – are increasingly specifying HI-MACS® solid surface, which is distributed exclusively in the UK and Ireland by **James Latham**. A highly versatile and extremely durable material, HI-MACS® can be easily machined and thermoformed to almost any 3D-shape imaginable, offering endless design possibilities and creating a surface that is flowing, functional and visually seamless. Even large-area installations have the appearance of a single application and this non-porous, completely smooth surface makes liquid penetration practically impossible, creating the perfect base for germ-free areas. In fact, HI-MACS® has been granted a specialist hygiene certificate, which means it is particularly well suited for use in kitchen and bathroom environments. These exceptional technical features also make HI-MACS® extremely easy to maintain, meaning it will not look tired or deteriorate in terms of its appearance or performance. Supplied in thicknesses of 12mm, 9mm and 6mm, HI-MACS® is available in 98 colours. In addition, the extensive HI-MACS® portfolio now also includes 22 designs of sinks and 13 vanity basins – available in over 60 colours.

0116 257 3415 www.lathamtimber.co.uk

Safety Platforms



Easy Stair is a temporary staircase which makes life on site much easier by reducing the need to climb up and down ladders prior to the installation of the finished stairs. Where the finished stairs cannot be installed due to the building not being watertight, or it is desirable to leave installation until later in the project to prevent damage, Easy Stair is the perfect solution. Easy Stair is delivered to site fully assembled, it is simply lifted into position secured by two screws and the handrails inserted into

either side. The stair unit weighs only 25kg and is available throughout the UK on a next day delivery service.

01924 420820 www.safetyplatforms.co.uk

Introducing a revolutionary dry tiling system



Solus Ceramics introduces the revolutionary recyclable Dry Fit System, a flooring solution that can be laid without grout or adhesive and moved or replaced with ease. The system, which is made up of interlocking modified flexible polymer tile holders, can be laid on

almost any flat surface including previously tiled areas. Once an area has been covered with the Dry Fit System, tiles can then be placed into the tile holders. Featuring built-in plastic grout lines and a resistant bed, tiles are locked into place without the need for adhesive products and grout. The UK made and distributed flooring solution, is manufactured from 25 per cent recycled content and is 100 per cent recyclable.

0121 753 0777 www.solusceramics.com



Create with Ted Todd

Celebrating 20 years in the industry, one of Europe's leading hardwood flooring manufacturers, **Ted Todd**, is taking bespoke design to a new level with the launch of Create on September 2. New to the hardwood flooring industry, Create is an innovative programme using CAD technology and provides designers with a simple solution to offer over 30,000 combinations of luxury hardwood flooring to meet the customer's exact specifications. The easy-to-use system is accessed via the website and offers a straightforward three stage process. Once the interior has been chosen, the designer picks from a huge selection pattern choices constructed of three components – block, plank and square and then there are 10 tone options to choose from for each component to complete the exclusive design. Designed and manufactured by Ted Todd experts, the intricate detail ensures the end product is 100 per cent hardwood. Each component is 15mm thick making the floors suitable for commercial and domestic applications.

01925 283 000 www.tedtodd.co.uk



Birmingham's gateway and Schlüter-Systems

The busiest train station outside London has received a £600 million facelift, with **Schlüter-Systems'** first-class products specified for the new flooring that will be used by over 140,000 commuters every day. With such a large surface area to cover, the project's architects specified the market leader in tile protection, Schlüter-Systems, to ensure passengers experienced an environment that was not only modern and pleasant, but also secure and protected. Installing hundreds of movement and expansion joints, products from the Schlüter®-DILEX range provided the perfect solution for secure edge protection for a surface such as the station's tiled flooring. Exposed to continuous pedestrian traffic each day, the flooring is protected from any movement by using the stress-relieving expansion joints of the Schlüter®-DILEX range, providing practicality while retaining an aesthetically pleasing design to fit in with the Birmingham's new modern design.

01530 813396 www.schluter.co.uk



Wet room wonders from Schlüter-Systems

Schlüter-Systems' extensive range of wet room products offers simplicity, reliability and easy installation within the home. Incorporating the very latest innovations for floor-level showers and wetrooms, Schlüter-Systems provides a fully integrated product suite, including top of the range waterproofing sets, drainage systems, and uncoupling and waterproofing membranes for tiling the walls and floors. Products including Schlüter®-KERDI-LINE are linear drain channel systems, which are perfect for the construction of floor level showers and offer a particularly low assembly height. The Schlüter®-KERDI-SHOWER range consists of pre-sloped shower bases, making tiling straightforward. There are also a number of different sizes and dimensions available, providing an ideal substrate for an excellent finish with tile or natural stone. Other products in the range include the Schlüter®-KERDI-SHOWER-TB, which has been specifically designed for timber substrate environments.

01530 813396 www.schluter.co.uk



Combined cladding and barriers for safe parking

The new Thames Valley Police Base at Taplow in Berkshire includes a two storey concrete car park for both fleet and commuter parking. TTSP Architects specified **Berry Systems** spring steel mounted safety barriers for perimeter edge protection and made this decision early enough for Berry to demonstrate that their Protecta-Clad system could be used to combine the barriers, the cladding and the fencing thereby saving components and installation time. Protecta-Clad was developed to take advantage of the installation process for safety barriers. The base plates of the spring steel buffers are extended to carry the mounting brackets for the cladding and, at Taplow, were also used to support the fencing posts. Installation of the cladding and fencing was achieved from the deck, disposing of the need for cherry pickers or scaffolding. The barriers also provide immediate 'working at height' safety for the installers. Protecta-Clad can be floor or column mounted by utilising brackets cleverly affixed to either the spring steel buffer base plates or the column fixings. These brackets are designed so that the barrier can still absorb energy by deflecting on impact but the cladding is not affected.

01902 491100 www.berrysystems.co.uk



Changing places made easy

New Building Regulations are causing confusion for many specifiers – confusion that can be clarified with new guidance from **Clos-o-Mat**. Under Building Regulations Approved Document M 2013 Access To & Use of Buildings, toilet accommodation needs to be suitable not only for disabled people, but for all people who use the building. Further, it is 'desirable' to include an enlarged unisex toilet incorporating an adult sized changing bench – a hygiene room or Changing Places toilet. To help ensure compliance, Clos-o-Mat has produced an informative white paper: *Considerations & Specification of Changing Places Accessible Toilets*. The white paper covers all requirements for compliance in one place, and can be downloaded direct from Clos-o-Mat's website. Clos-o-Mat, founded 50 years ago, is the only company in its field with the in-house capability and expertise to design, supply, install, commission and service all the equipment for a hygiene room/ Changing Places toilet, from grab rails through hoists and height adjustable basins to automatic ('wash and dry') toilets and toilet lifters.

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Exciting new material is sure to be child's play

Advanced Technical Panels (ATP), part of the James Latham Group, has announced the arrival of an exciting new plastic material which is certain to make a big impact, especially within the leisure and play equipment sectors.

Ideal for both indoor and outdoor use, HDPE (high-density polyethylene) which will be branded 'Harlequin' by ATP, is a totally unique material that, as well as being completely resistant to the elements, is also extremely difficult to damage or break, therefore making it a very low maintenance and long lasting option.

David Briggs, director of ATP commented, "Already we can see all kinds of applications for Harlequin and we know that in other countries it has been used extensively in the manufacture of children's playground and educational equipment either for use inside or out. Plus, because it won't fade, scratch, swell or split and dirt, graffiti and permanent markers are easily removable, it will stay looking brighter and better for longer."

Other potential applications include packaging, outdoor furniture such as benches, tables and fencing, floors for artificial ice and hockey rinks as well as the marine industry.

The Harlequin range, which is also 100 per cent recyclable, is available in 19 different bright and impactful colour combinations. It also compliments ATP's other products for the play sector including Multiwall, a birch plywood which is coated on both sides with decorative polypropylene laminate and, as well as playground equipment, is also used in sports fencing and rebound boards.



0113 387 0850 atp@lathams.co.uk
www.advancedtechnicalpanels.co.uk



A&G develops new paving flag



Acheson & Glover (A&G), a leading supplier of premium hard landscaping products, has developed a new paving flag to meet the architect's specific design requirements for the £25.6 million Marlowe Theatre in Canterbury. KWA Architects approached A&G to provide a value engineered

alternative to the flame finished natural granite stone specified for all of the hard landscaping areas. TerraPave® Natural Aggregate Flags in a Florento (Marlowe Special) textured finish was chosen as a high quality, cost effective option. Its exceptional appearance is achieved by using state of the art manufacturing and finishing equipment with the natural aggregates providing the surface colour rather than concrete dyes.

0845 601 5207 www.acheson-glover.com

Onyx 20mm – another exciting product



Long Rake Spar continually strives to introduce unique new products to the trade that have a high sell through rate, while offering a sound profit return. The sales of its recently launched, uniquely different Flamingo chippings have excelled in this respect, already outselling many established products such as

Plum and Blue Slate in both, bulk bags and pre-pack; a fantastic achievement for this relatively new product. Following on from this success Long Rake now introduces 20mm Onyx, a further unique and highly decorative chipping. The enriching, golden, buff and apricot tones of this 20mm angular chipping uplift and contrast beautifully with paving.

01629 630133 www.longrakespar.co.uk

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Flawless fence finish



Osmo UK offers an external wood finish to protect, maintain and restore garden fences. Osmo's Fence and Garden Stain restores the natural beauty and character of the wood, leaving it looking in top condition all year round. Fence and Garden Stain is an easy to apply finish that emphasises the texture and grain of the wood in either natural chestnut or pale green. Not only does the stain maintain the wood's original look, the micro-porous formula will not crack, flake, peel or blister, creating an exceptionally durable finish. Osmo's Fence and Garden Stain not only provides a UV protection, it is also water and weather resistant, making it suitable for all climates.

Ultrascape beds water features right first-time

Ultrascape's BS 7533 compliant mortar paving system and EP-R9 resinous mortar are ideal for water features in public realm schemes. The materials have been used extensively across the UK, including Londonderry City Centre and London's new Granary Square



Londonderry City Centre underwent a major regeneration project to create a modern, urban landscape in the heart of the city. Shipquai Place and Waterloo Square were the focus of the redesign with the aim to increase pedestrian footfall and make these places attractive areas in which to meet and stay.

The construction work included upgrading drainage infrastructure, removing the old concrete

block paving, renewing street lighting, pedestrian crossings and the installation of a new digital 80 nozzle water feature with integrated lighting outside Guildhall.

The fantastic new Granary Square – the heart of King's Cross – is London's newest square and one of the largest of its kind in Europe. Over 1,000 fountains create a spectacular water feature, all bedded using Ultrascape's EP-R9 epoxy resin mortar.

The square's area was once used for the unloading of barges, so it was fitting to work its aquatic history into its new design. The Fountain Workshop designed the choreographed fountains, which are individually lit and at their most spectacular at night.



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Good Directions acquires Neptune

Good Directions Ltd is proud to announce that Neptune Outdoor Furniture Ltd became part of their company group from 1 August 2013. British manufacturer Good Directions, specialist in the design and production of exterior clocks, clock towers, architectural features and copper gutting, has acquired Hampshire based street furniture specialist Neptune as part of its continued expansion plans. Welcoming the deal, Good Directions managing director Alan Gingell said: "we are always looking at ways to expand our business, diversify our product ranges and improve services for our customers. We are confident that by combining the two companies we will make the experience of sourcing outdoor architectural products easier." The deal marks an impressive twenty five year journey for Good Directions Ltd and its owner Robin Davies, who originally started the company with his wife Patricia from their home in Botley, Hampshire. Good Directions have worked with Neptune for many years.

01962 777799 **www.nofl.co.uk**

What is resin bound paving?

SureSet clears up the confusion with choosing resin bound paving

There is often huge confusion as to the difference between resin bound and resin bonded surfacing, which although similar in name are very different in principle. Both systems do however require a structurally sound substrate such as concrete or tarmac in order to perform their best. Resin bound is by far the more sophisticated system of the two.

The resin bound system is mixed on-site and cold applied, using a high quality clear resin binder to coat the aggregate particles prior to laying. Unlike other methods of resin based surfacing (resin bonded), where a thin layer of resin is applied to the surface and then the aggregate scattered on top (which can then become loose over time and is impermeable), resin and aggregates are thoroughly mixed together prior to laying – ensuring that the aggregate is completely coated and so providing a totally bound surface. Resin bound is then hand laid to a smooth and compact finish offering a number of performance and operational benefits.

Being a flexible surfacing material, resin bound paving is highly resistant to cracking, making it an ideal solution for both new and refurbishment projects. As a result, a resin bound surface is more durable and requires less maintenance – it only needs to be swept or power washed at least twice a year, to avoid the build up of detritus and prevent the growth of moss or algae.

Resin bound paving is a fully permeable paving solution which allows water to freely drain through the surface. Meeting the requirements of Sustainable Urban Drainage Systems (SUDS) standards, this helps to prevent standing water and largely eliminates surface water runoff.



Resin bound paving is a hand trowelled, UV stable and permeable surfacing material. With great design flexibility and an almost unlimited range of colours and materials including natural aggregates, crushed stone, marble and recycled materials, the product is ideal for areas requiring low maintenance and innovative surfaces which will deliver a wide range of benefits:

- Speed of installation – up to one third faster than other materials
- Design flexibility – to create colours, curves, emblems and patterns
- Smooth hardwearing finish – ideal for disabled access, pushchairs and bicycles
- Permeable paving – allows water to permeate through the surface
- Low maintenance – no weeds, standing water, or loose stones
- Environmentally friendly – laying method is a low energy cold applied process
- Durable – typically has a design life of 20-25 years.

Fast and easy to install, quality resin bound surfacing delivers a wide range of aesthetic and performance benefits for a multitude of applications including driveways, pathways, patios, pool surrounds, tree pits, and large commercial areas. Resin bound paving is not only suitable for external use, it can be used internally and look stunning in showrooms, kitchens, bathrooms, shops and offices. With a quality resin bound paving provider, you will be guaranteed:

Beautiful, long-lasting appearance

With a quality resin bound surface, you are guaranteed a beautiful, durable and virtually maintenance free surface that can withstand traffic loads from light pedestrian to vehicular access roads and can easily cope with the stresses of power steering and heavy axle loads. With a large choice of colour and texture options available, it provides great design freedom and flexibility to create stunning surfaces. Resin Bound paving may be used in combination to complement or contrast with most materials, including grass, wooden decking, bricks and pavers.

Continued overleaf...



Permeable solution

The permeable nature of resin bound paving is that it significantly reduces the problem of standing water and puddling – the resin bound surfacing simply allows water to drain through.

Low maintenance

When installed by skilled craftsmen, a quality resin bound surface will provide many years of high quality performance. Resistant to cracks, oil, UV-light and frost, the integrity of the resin bound surface will remain intact, preventing stones from becoming loose and weeds from growing through. The surface can be kept clean simply by brushing or power washing.

Sustainable solution

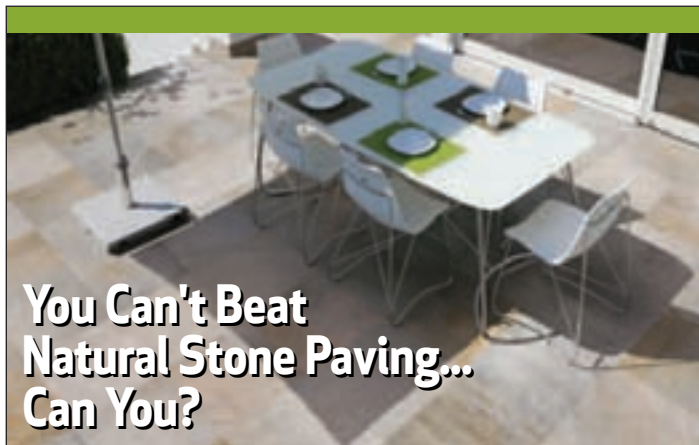
Providing a permeable solution, quality Resin Bound surfaces can contribute significantly to Sustainable Urban Drainage (SUDS).

Resistant to cracks, oil, UV-light and frost, the integrity of the resin bound surface will remain intact

Flexible design capability

With the endless option of colours and materials that no other paving can match, resin bound surfac-

ing can create stunning visual effects using stencils or metal edging to compliment your project. The results can be sensational as well as hard-wearing.



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Open grille decking adds metallic sheen

Neaco's Techdek aluminium open grille system has been specified to add metallic style to a rooftop terrace which is one of the key features at Roswell Court, McCarthy & Stone's luxury development of 52 one and two bedroom Assisted Living apartments. Situated in an enviable position overlooking sandy beaches, the terrace decking provides a place of relaxation for residents with stunning views across the picturesque coastal setting. Set in landscaped gardens, Roswell Court was recently completed to provide highly specified retirement apartments on a brownfield site once occupied by a derelict college. A spokesperson for McCarthy & Stone said: "Techdek was chosen mainly for its aesthetics and we have received very positive feedback on the results of the installation. The terrace is one of the largest in our portfolio and is based on our desire to provide excellent light and air to our residents." Techdek is suitable for a multitude of applications, including decking, flooring, staging, solar shading, cladding, screening, access walkways, balustrade infills, stair treads and ventilation.

No compromise with Drywood Woodstain from Lonza

Late last year Lonza Wood Protection introduced a new coatings range for exclusive use on NON-COM Exterior fire retardant treated timber claddings and, since its launch, Drywood Woodstain has gained considerable interest from the timber trade and specifiers.

Drywood Woodstain, a water-based system available in transparent, semi-opaque and opaque colours, offers architects and designers a robust and reliable coating system that does not compromise the fire retardant properties of the NON-COM Exterior treated timber.

When industrially applied by a Lonza approved company onto NON-COM Exterior treated timbers, Drywood Woodstain has a four-year performance warranty, which can be further extended with regular maintenance.

Jacqui Hughes, UK Fire Retardants sales manager, believes that Drywood Woodstain brings a whole new specification choice: "Whilst NON-COM Exterior fire retardant treated claddings do not require a protective coating, specifiers have been requesting a complementary system to add colour when required."

"Drywood Woodstain is a very versatile solution, allowing specifiers to choose colours that match any RAL specification as well as having unique performance credentials. Drywood Woodstain penetrates deep into the wood whilst building a thin

film layer on the surface. This film layer allows the timber to breathe and also prevents excessive dirt retention building up on the coating's surface. The coating system then weathers slowly and evenly over the entire surface and can be easily overcoated, if required, with minimum preparation."

Specifiers are able to utilise Lonza's digital Colour Picker tool to see colours within the Drywood Woodstain range in-situ.



Lonza's digital Colour Picker tool can be found at www.lonzawood.com/Products/Coatings/drywood.htm



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Testo will be showcasing a range of products at the Energy Efficiency Exhibitions to help installers save money, by accurately measuring efficiency to reduce running costs as well as reducing their carbon footprint. Visit Testo on stand 23 to see its range of high quality CO₂ and CO monitors, gas leak detectors, thermometers, Pocket Line range and multi-function instruments. Stop by the Energy Efficiency Demo Station at each show, where Testo will be demonstrating their thermal imaging cameras. Come along to see the newly improved Testo 875i Thermal Imager in action and find out why it is the must have diagnostic tool. Testo have also recently introduced two new flue gas analysers to its range, which are packed full of features; from the Testo 310 low cost, all-rounder for basic measurements to the Testo 320 for graphical flue gas analysis and the Testo 330LL powerful high-end instrument with revolutionary long-life sensors. The product portfolio covers the entire spectrum of the flue gas measurement on heating systems.

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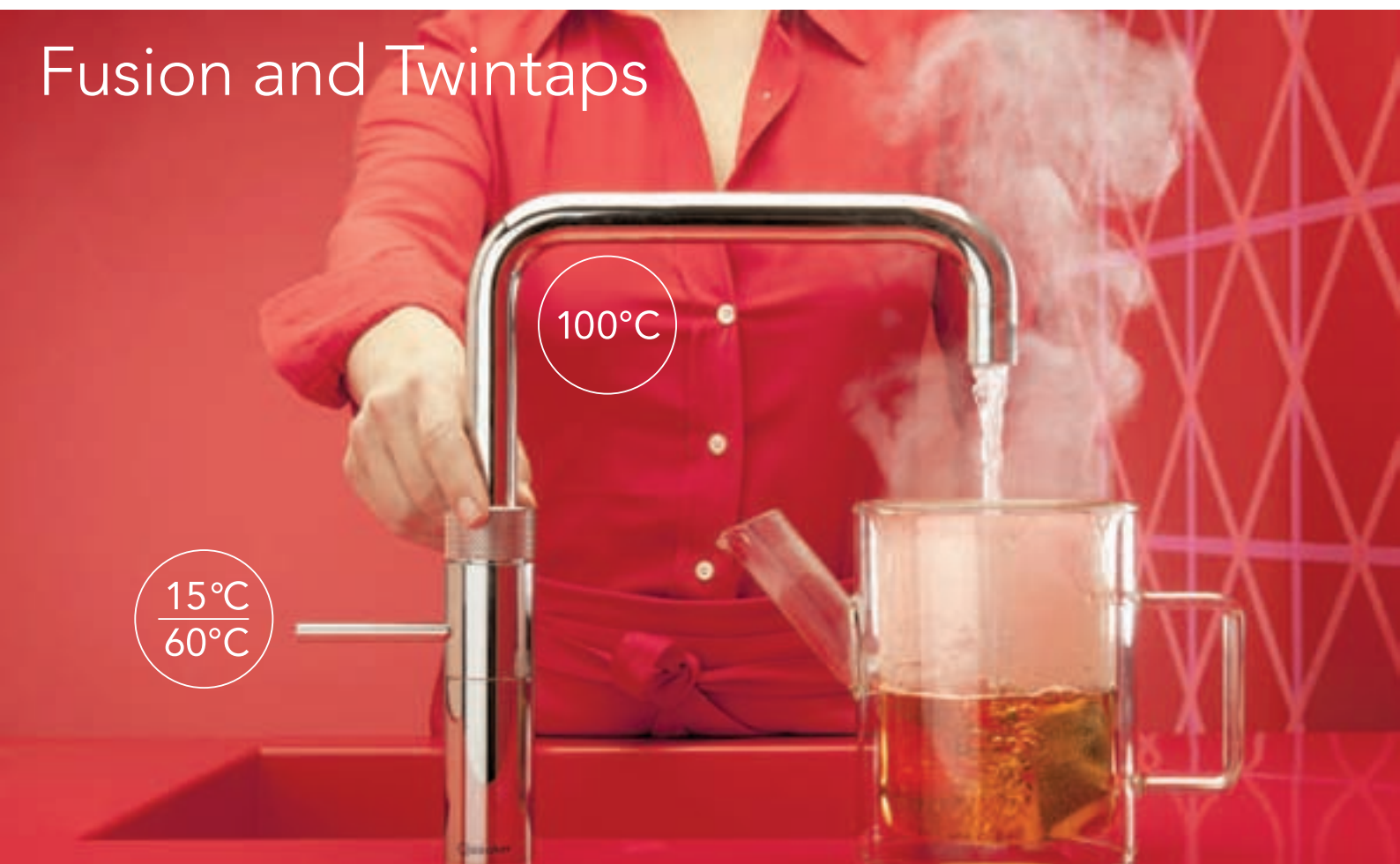
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NEW QUOOKER INTRODUCES THE NORDIC DESIGN SERIES

Fusion and Twintaps



Quooker launches new Nordic Series

History

When engineer Henri Peteri was working on the development of instant soup for an international food company thirty-five years ago, he realised that soup would never be 'instant' without boiling water on tap. From that moment on he was captivated by this idea. He left the company he was working for and – working out of the cellar in his own home – started developing an appliance that would dispense boiling water instantly.

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Kitchen showroom line only

The new Nordic series has been launched as a kitchen showroom line only. It's not available online demonstrating Quooker's commitment to its kitchen dealer network.

Contact us to find out more on the Nordic Design Series.

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