

building construction design

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Ecobuild
Appointments & News
Planning & Design
Building Products
Groundworks
Structural Elements
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Insulation
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February/March 2014





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vivix.eu@formica.com

Tel: 0191 259 3100



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Cover image: © AV Composites
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Ancon focuses on low energy solutions



Ancon, a leading manufacturer of stainless steel masonry support and restraint fixings, is to team-up with one of the country's largest brick manufacturers, Ibstock, to present a range of sustainable and low energy construction solutions at this year's Ecobuild exhibition. Due to be launched at the show is a new

version of the company's ground-breaking ultra-low thermal conductivity TeploTie which features a stainless steel L-shaped upstand for connecting to steel, concrete or timber frames. This new tie will be displayed alongside the original TeploTie and other stainless steel wire ties from the company's extensive range of thermally efficient cavity wall ties.

0114 2755224 www.ancon.co.uk

BLUCHER to showcase at Ecobuild 2014



Following the success of Ecobuild 2013 BLUCHER has once again taken a stand on the Nordic Pavilion to showcase its wide range of sustainable stainless steel drainage solutions. Boasting products to suit all project sizes, types and applications from a simple wetroom drain in a domestic residence to the most hygienic commercial drainage pipework and channel systems,

BLUCHER are certain to be able to provide a green drainage solution to meet your exact requirements. Visit at the Nordic Pavilion stand S720.

01937 838 000 www.blucher.co.uk

Epwin



Restricted by your supply chain? Feeling the pressure of reduced capacity? Margins not what they used to be? Epwin Group understands the importance of partnerships, and the critical role they play in the future and long-term success of a business. So as the recovery builds momentum, it's time to re-think, re-evaluate and re-consider this vital element. Join the Epwin Group at Ecobuild 2014 on Stand N1110/1 to hear why 'standard' just isn't good enough in

2014, and learn why its sector specific, niche and specialist products and services set it apart from the competition.

info@epwin.co.uk www.epwin.co.uk

Flowcrete's GREEN Floorzone at Ecobuild



A ground-breaking flooring system is set to take centre stage at the world's leading event for sustainable design and construction. Flowcrete UK's revolutionary GREEN Floorzone is one of the most energy-saving single-source solutions on the market and a

model of the package, featuring the substrate through to final floor finish, will be on show at Ecobuild 2014, at Flowcrete's stand N340. Ideal for new build and refurbishment projects, GREEN Floorzone is a single warranty floor build-up programme featuring a number of sustainable options including choices in resin floor finish and self-levelling screed.

01270 753000 www.flowcrete.co.uk

Cress Water Solutions at Ecobuild



Cress Water Solutions will be back at Ecobuild this March on stand S1867 in the Biodiversity Pavilion. Visit the stand and discuss how Cress Water Solutions can help you with one of its reed-bed and constructed wetland systems. It has natural ecologically friendly solutions for treating sewage

and other wastewater effluents for all off-mains drainage situations. Cress Water Solutions can also help you with an integrated approach to surface water run-off management using SUD Systems, rainwater harvesting, water recycling and aquatic landscape features.

01884 839000 www.cresswater.co.uk

Multi tasking flood defence barrier



Jacksons – a leading British designer, manufacturer and installer of perimeter security/access control solutions – launches a revolutionary long lasting timber flood fence that combines effective flood defence qualities with essential perimeter protection at

Ecobuild. Flood Defence is a permanent 750mm high structure (effective height of the barrier is 600mm) that has been designed to protect a property from occasional floodwater. In test conditions, Flood Defence has been proven to be successful in providing effectual protection against flooding, with leakage of less than one litre per hour per metre of the length of the barrier.

AV Composites

AV Composites has developed aluminium panels for conservatory roofs that provide better insulation than panels made of either alveolar polycarbonate or double-glazed glass.

The AV Composites panels are 100 per cent recycled (and recyclable), thanks to the fact that the insulating foam is made out of recycled plastic bottles. The panels can also be coated in a range of coloured insulating paints that match the frame's colour. AV Composites will showcase its innovative solutions at Ecobuild between 4-6 March on stand N1026.

AV Composites, which is headquartered in South-Eastern France, was founded in 2005. The company currently has a 4,000m² production site, which it plans to increase to 6,000m² over the next three years.

The company's products have been awarded European Technical Approval (ETA), a certificate which is granted by the European Organisation for Technical Approvals (EOTA). For further information about AV Composites, please visit the website.

Tel: +33 6 30 13 21 05 www.avcomposites.com



Kemper System showcases complete sustainable roofing solutions

Kemper System's stand (S1520/21) at this year's Ecobuild (4-6 March) continues to promote the market leading solvent-free, sustainable and odourless Kemperol 2K-PUR liquid waterproofing system and Stratex Warm Roof System.

Kemper System's innovative Kemperol 2K-PUR solvent-free and odourless system is the first solvent-free, wet-on-wet, cold liquid waterproofing system available on the UK market and remains the only product of its kind commercially available. The past year has seen continued growth in sales for the hard-wearing and durable waterproofing membrane, which bonds to almost any substrate to create a totally seamless, monolithic, U/V stable, elastomeric membrane. Based on an 80 per cent castor-oil formulation derived from sustainable sources, the system also incorporates a flexible,

non-woven reinforcement fleece, which is manufactured using 25 per cent recycled plastic bottle content. As the resin saturates the fleece in a single application process, the cured membrane cannot delaminate. The eco-friendly Kemperol 2K-PUR can help to prevent excessive waste from being sent to landfill during roof upgrades by avoiding the need to strip out the existing failed substrate.

Complementing the sustainability credentials of the Kemperol 2K-PUR system, Kemper System's Stratex Warm Roof System offers a completely integrated warm roof system that incorporates primers, vapour barrier, insulation and waterproofing with a range of optional surfacing.

Kemper System will also be showcasing the company's Kempergro Green Roof System, a three-section system comprising a reservoir attenuation composite, growing medium and vegetation.



Visitors to Kemper System's stand will be able to see how each of the systems have been used in practice, including how the Kemperol 2K-PUR waterproofing membrane and Stratex Warm Roof System have been used together on various high profile projects. There will also be a number of display areas where visitors to the stand will be able to view samples of the cured product to experience first hand the flexibility and durability it offers.

Contact Kemper System today on 01925 445532 or visit www.kempersystem.co.uk

All round strength in energy efficient heating



Johnson & Starley's participation at Ecobuild 2014 will underline the company's commitment to the provision of highly energy efficient heating and ventilation solutions, meeting the needs of homeowners, specifiers and installers. Renowned for its market leading warm air heating technology, the company's recently launched range of WarmCair condensing warm air heaters offer high efficiency combined with low running costs, low NOx emissions and low operational noise levels. A full range of models are available including three models with integral Domestic Hot Water. Full details of all products will be available on Stand N1211 at Ecobuild 2014.

Polyseam



Polyseam will be exhibiting Graft™, its own new range of sealants, adhesives and fillers on Stand N520 at Ecobuild, March 4-6th 2014 at Excel. The new range bears the strap line 'Hardworking products for hard working people'. Dave Oram, marketing at Polyseam, said: "Builders are facing the joint challenge of meeting ever more stringent environmental legislation without incurring astronomical increases in costs or impinging on the quality of their work. With the Graft

range we are able to allay these concerns and bring them a choice of products that will meet their requirements."

Tel: 0208 596 5061 www.graft.co.uk



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Kaldewei



On stand S110 at Ecobuild, Kaldewei will exhibit a selection of latest bathing and shower solutions all made from its unique 3.5mm steel enamel. Offering unrivalled sustainability, Kaldewei is the first bathroom manufacturer to hold ISO 14025 certification in recognition of the eco properties of this 100 per cent recyclable material and its green manufacturing processes. Example Eco models of baths with reduced water capacity will be on display along with level-access shower products, all of which help specifiers conform to current building regulations, while still providing superb levels of design and bathing comfort.

which help specifiers conform to current building regulations, while still providing superb levels of design and bathing comfort.

Tel: 0800 840 9770 www.kaldewei.co.uk

Ecobuild showcase for Smart



Once again, commercial systems specialist **Smart Architectural Aluminium** will have a dominant presence at Ecobuild, with the company showcasing a number of new and existing products at the exhibition, as well as presenting its sustainability credentials.

Featuring prominently will be the recently launched Alitherm Heritage range of windows and doors, the display including a new pivot window, which has been designed to fit into very traditional openings such as stone mullions. Also on display will be products from the Alitherm 700 range, with both parallel opening and top-swing reversible windows installed.

01934 876 100 www.smartsystems.co.uk

Eurobond Laminates launches new and improved website



Eurobond Laminates has launched a new website packed with information and advice on its range of fire resistant, low environmental impact stone wool core composite panels. The new website has been designed to provide the ultimate user-friendly experience with improved navigation and functionality throughout, allowing architects, specifiers and contractors to access technical information, design support and a BIM library. With a new design and greater and more focused content, the new website provides a complete overview of the Europanel, Rockspan, Rainspan and Firemaster product ranges.

The new website provides a full range of resources to help understand, specify and integrate Eurobond Laminates products into a project. Downloadable information includes: Company and Product Brochures, Technical Manuals, Environmental Product Declarations, Certificates and Accreditations, BIM files and COBie datasheet parameters, and a wide range of construction details.

02920 776677 www.eurobond.co.uk



EnviroVent wins national manufacturing award

EnviroVent has been named SME Manufacturer of the Year at the National Manufacturer Awards. EnviroVent scooped the award – demonstrating that it is a rising star in the world of UK manufacturing – at a glittering ceremony alongside an array of blue chip companies including Rolls Royce, AstraZeneca, Jaguar Land Rover, FujiFilm, and Monarch Aircraft. What's more, EnviroVent is the first ventilation company to win this prestigious award, beating companies from the engineering and food industries. The company manufactures a wide range of energy efficient and innovative ventilation solutions, which improve indoor air quality in hundreds of thousands of homes by providing a guaranteed and permanent cure to condensation and mould. Managing Director Nick Heaton said: "EnviroVent is proud not only to be a UK manufacturer, creating many jobs, but also a world class designer which manufactures ground-breaking ventilation products, and this now proves it."

01423 810180 www.envirovent.com



Responsible sourcing standard for Eurobond

Eurobond Laminates is proud to announce that it has gained the prestigious accreditation – BES 6001 Responsible Sourcing of Construction Products – for its entire range of stone wool cored internal and external wall and ceiling composite panels. It becomes the first UK composite panel manufacturer to achieve this prestigious standard that demonstrates a building material has been produced in a way that has minimised its environmental impact. Responsible sourcing is becoming more important and this is reflected in BREEAM, which now awards extra credits for products that have been assessed to BES 6001. Managing Director Simon Thomas said: "Eurobond believes that effective environmental management is an essential part of our ongoing success and this latest award has demonstrated a clear commitment to creating a sustainable, low carbon manufacturing business."

02920 776677 www.eurobond.co.uk

Firestone receives further certification



Firestone Building Products are delighted to report that the eighth issue of the BBA Agrément Certificate 89/2216 has been awarded for its RubberGard™ EPDM single ply roofing systems. In addition to the fully updated technical standards featured in the new certificate, a study of

long-term roof installations in the UK was completed during 2013. The single ply membrane used as a waterproofing membrane as part of a flat roof system was assessed in a variety of key areas such as weathertightness and durability. All available evidence now indicates that the Firestone RubberGard EPDM roofing system should have a life in excess of 30 years.

Hattersley embraces BIM



Hattersley now offers an extensive range of valves as Building Information Modeling (BIM) ready product components, primarily available in the Autodesk Revit platform. BIM is increasingly being adopted by engineers, architects and builders to intelligently design buildings by creating a digital representation. At present,

Hattersley has made some of its traditional and balancing valves available as BIM content with others to follow. Judy Lumsden, Hattersley president, commented on the new BIM offering: "We are very pleased to be one of the first valve manufacturers to launch a comprehensive range of BIM ready components."

01744 458670 www.hattersley.com

Fernco Environmental renamed 'Source One'



Since 1st January 2014, Fernco Environmental, suppliers of water management and infrastructure repair products, has been renamed **Source One Environmental Ltd.** The new name reflects that of its US based sister company also owned by the Fernco Group, which trades within similar industries. The change creates a powerful global brand with presence

in North & South America, Europe and Australasia. Managing Director Jon Crean explained: "The company remains committed to its goal of bringing innovation and new technologies to market. 2014 will be an exciting year for us, as we have some impressive new ideas in development across our whole range."

01226 397 015 www.s1e.co.uk

Vent-Axia



Vent-Axia, a leader in low-carbon ventilation, is celebrating winning the Building Services Product Innovation of the Year in this year's prestigious Retro Expo Awards. Scooping the award for its revolutionary Lo-Carbon Temptra the company received the accolade at an awards ceremony held at the Business Design Centre, London on 5th December. The Lo-Carbon Temptra was the UK's first single room heat recovery unit that can be retrofitted through a 100mm diameter hole in the wall. This

allows inefficient extract fans to be easily replaced with a discreet, low energy alternative that offers up to 84 per cent heat recovery.

Tel: 0844 856 0590 www.vent-axia.com

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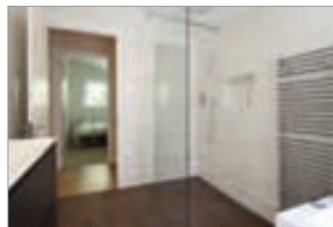
CUTTING EDGE ACOUSTICS



Collecta® continue to establish itself as experts in sound proofing, as its *Cutting Edge Acoustics* CPD receives the stamp of approval from RIBA. The RIBA CPD Assessed Material covers the fundamental characteristics of acoustic Building Regulations Part E and provides guidance on sound proofing all types of new build & refurbishment floors and walls, including Robust detail and Pre Completion Test solutions. The CPD is available to complete online via the RIBA CPD website.

08456 717174
www.collecta.co.uk

WETROOM DESIGN & SPECIFICATION CPD FROM CCL WETROOMS



CCL Wetrooms has developed a *Wetroom Design & Specification* CPD to help guide architects through the process of designing and specifying a watertight wetroom. The technical presentation covers the key considerations, including wetroom design and layout, waterproofing, drainage, floor build up and installation. It also includes a section on how wetrooms can help meet the Lifetime Homes Standard.

0844 327 6002
www.ccl-wetrooms.co.uk

UNDERSTANDING AND SPECIFYING INVISIBLE SOUND SOLUTIONS



Amina Technologies' RIBA-approved CPD seminar compares the basic principles of conventional sound technology with that of VPT (Vibrational Panel Technology) technology used for Amina's invisible loudspeakers. Consideration is given to the characteristics and benefits of the different technologies before looking in more detail on how to specify an invisible sound solution for end customers illustrated by case studies on both commercial and residential applications.

01480 354390
www.amina.co.uk

VETROTECH SAINT GOBAIN CPD



Manufacturer of fire resistant glazing Vetrotech Saint Gobain understands the moral and legal obligation required to ensure the correct specification is met on every project. It introduces a new RIBA approved CPD, a comprehensive overview of the fire glass industry which explains the different types of fire protection, why fire rated glass is required, the different types of fire glass needed and how they work and how to correctly specify fire rated glass.

02476 547 7620
www.vetrotech.com

SE Controls extends design team with new key appointment



Smoke and natural ventilation systems specialist **SE Controls** has reinforced its design, R&D and product growth team with the appointment of Dr Chris Iddon, who joins as design manager to spearhead the company's active and growing product innovation programme. While Chris's initial academic studies focused on biochemistry, gaining a PhD in the subject in 2001, he has since been concentrated on the construction industry and the built environment, having worked in a design management capacity within the contracting sector. He subsequently went on to gain an MSc with Distinction in 2012 from Loughborough University's Low Carbon Building Design course, prior to joining SE Controls. "The design, operation and efficiency of natural ventilation systems are being driven by an increasingly diverse range of key criteria encompassing building design, climate change and legislation as well as advances in technology," explained Dr Iddon. "SE Controls already has a strong track record for innovation, including the recently launched NV LogiQ data logger and room controller, but we are already working on further advances in natural ventilation control solutions." Since joining the company, Chris was a selected finalist in CIBSE's Graduate of the Year Award and has also had a joint research paper on *The embodied and operational energy for new build housing and construction methods* published in the academic journal, *Energy and Buildings*.

TTA urges extra care on tiling with mesh-backed products



In view of the increasing use of ceramic and stone mesh-backed tiles and slabs in the UK, **The Tile Association** urges extra care with the specification and installation of such products.

These products tend to have a mesh adhered to the back with resin or glue. It means that the adhesive used to fix the tile has to adhere to the backing mesh. Dependent upon service conditions, the type of backing may have a significant impact upon performance. It is also important to note that the coefficient of thermal expansion of the mesh back and its resin/glue may be higher than the tile or natural stone to which it is attached.

Apart from reference to BS 5385 and BS 8000-11 regarding mesh-backed products, the TTA advises that as a guideline, if the mesh and glue cover more than 25 per cent of the back of the product, they could interfere with adhesion between the product and the mortar or adhesive bed unless the glue and the mortar or adhesive are compatible. Advice and help on this subject or other aspects of tiling can be found in the Help section at the TTA web address as below, under common questions and architect support.

info@tiles.org.uk www.tiles.org.uk

New product catalogue from T-T



T-T, a leading UK manufacturer and supplier of pumps, controls, valves and ancillary equipment has launched a new 336 page catalogue. This comprehensive catalogue features all the standard products you come to expect from the company but also showcases a vast array of new products and more detailed information making product selection even easier for you. T-T has endeavoured to make the catalogue as user friendly as possible, reflecting their popular website.

There are 12 main sections covering submersible and surface mounted pumps for waste and clean water, accessories, pumping stations, valves and control systems.

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Changing Places in 3D



The Changing Places accessible, assisted toilet 3D CAD download, available only from Clos-o-Mat, has been purpose-developed to help designers plan building layouts and visualise how the room differs from a standard (Document M type) wheelchair-accessible toilet, the range of equipment therein, and how

it all integrates to enable anyone who needs the help of a carer to go to the toilet when away from home. The 3D CAD download compliments the range of 2D CAD downloads and video already available on Clos-o-Mat's website and via external resources including NBS.

0161 969 1199 www.clos-o-mat.com

Dickies' new safety workwear ranges



Dickies, the internationally renowned workwear brand, has launched a new range of PPE products offering maximum protection, while also maintaining comfort and range of vision at all times. Flame retardant clothing and footwear has been developed

to meet the new international safety standards, and additional new designs in safety footwear. The new flame retardant collection of Proban, Pyrovatex, Modacrylics and Aramid FR product uses a selection of Dale, Dupont and Carrington and other fabrics.

01761 419419 www.dickieseurope.com

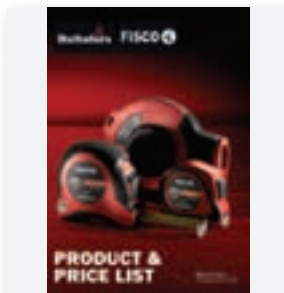
Snickers Workwear



Snickers' 'Three-Layer' workclothes principle is unique in the workwear industry. While our bodies can adapt to warm conditions, they can't acclimatise to cold weather. Keeping the body warm by storing warm air close to the body is the primary task of the middle layer. Snickers' 'Second Layer' garments are made of a porous material that creates warm air-pockets. These include shirts, fleeces and trousers that are carefully designed to complement 'First Layer' protection

through unique innovations like the A.I.S. Active Insulation System. Snickers combine insulating and windproof micro-fleece fabrics with high moisture transportation material to keep you warm and comfortable on site.

Hultafors



Hultafors Tools' new Product and Price List catalogue is now available with details of loads of innovative hand tools and accessories for working effectively wherever you are on site – whatever your trade. The proof of Hultafors' quality and innovation can be found in every hand tool. Ergonomically crafted with built-in Fisco technology, there's a host of tools for measuring and marking, chopping, striking and levelling. There's even award-winning wrecking bars that act

as multi-purpose workmates on site. Whatever the job in hand, the Hultafors hand tools system provides the ultimate solutions for making everyone's workday easier.

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Dickies



Dickies will be introducing a number of exciting new products and ranges for 2014, with style, functionality and quality being paramount. It is launching a brand new Flame Retardant range with new design features and introducing new and innovative fabrics into the market. It will also be introducing an exciting new two tone range, designed to sit across all Dickies collections. The new parka jacket is a key piece in the collection, with features including a removable hood, removable fur and a tail hem for extra back warmth. Dickies' high performance workwear is suited for even the harshest working environments.

Tel: 01761 419419 www.dickiesworkwear.com

Snickers Workwear



The soft wicking polyester in Snickers' 'First Layer' underwear keeps your body warm and dry, while the 'Second Layer' garments will insulate your body by creating a pocket of air around it to keep you warm. Over and above these superb working clothes, Snickers' 'Third Layer' jackets and trousers deliver reliable weather protection against rain, wind, hail and snow along with advanced ventilation plus in-built functionality to control and regulate the heat from your body.

These waterproof, breathable, strong and durable outer garments – like Snickers' new advanced A.P.S. working clothes – will keep you working in comfort, at your best, whatever the environment or weather conditions.

Armstrong Ceilings are more than fit for purpose at new-look leisure centre



A combination of mineral tiles and canopies from **Armstrong Ceilings** have scored a hat-trick in the £2 million redevelopment of a leisure centre. Sixteen 1,800mm x 1,200mm Optima rectangle canopies take pride of place in the free weights and weights machines area of the new gym and are complemented by 365m² of Perla OP 0.95 (the first mineral tile in the world to gain Silver Cradle to Cradle certification) in the gym. In addition, some 230m² of Ultima MicroLook tiles were installed by specialist sub-contractors Gypsum Plasterers for main contractor Morgan Sindall in the new café, together with 500m² of Dune Max Tegular tiles in the studios, stairwells and corridors. The six-month project involved the redevelopment of Woking Borough Council's 1960s concrete-framed leisure centre to make it more accessible and enjoyable. Arkon Director Ian Connew commented: "As a practice we have utilised Armstrong products in numerous schemes and they have performed well, creating spaces with clean lines and delivering the qualities required in specific environments. At Woking, the greatest challenge was to maintain the existing leisure centre in use while undertaking the works. This was particularly critical in the reception area." David Wilson of Gypsum Plasterers, said: "The Armstrong products were fantastic."

01895 251122 www.armstrong-ceilings.co.uk



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UK Timber Frame Association

Unit 6, Westwood Industrial Estate, Pontrilas, Herefordshire, HR2 0EL
Tel: 01981 240860 | Fax: 01981 240255 | sales@neatwoodhomes.co.uk

State-of-the-art hub makes a statement



Edinburgh's historic Old High School has been transformed into a state-of-the-art, energy efficient hub for the Edinburgh Centre for Carbon Innovation (ECCI). **Hunter Douglas** supplied a range of innovative systems for the ECCL. Wooden ceilings were specified for the refurbished hub including the Hunter Douglas linear open wooden ceilings in 101.6mm module. The ceilings were supplied without the usual fire protection treatment in order to ensure that the timber could be recycled at the end of its life. This helped ensure that the building was the first refurbishment of an old building to achieve BREEAM 'Excellent' status.

01604 766251 www.hunterdouglas.co.uk

Third CDL handbook is published



Constructive Details Limited, a joint venture by the BBA and Robust Details Ltd, has launched its third handbook of masonry detail junctions developed for the Aircrete Products Association. The publication of the latest Constructive Details handbook for solid external

walls completes the set for aircrete blocks, with the common constructions of partial fill, full fill and externally insulated solid walls all now being covered. It is available for download free of charge, along with the other handbooks, via a dedicated 'resources' page on the CDL website.

01923 665300 www.constructivedetails.co.uk/resources

New brochure from Helifix



A new brochure, now available from structural repair specialist **Helifix**, has been produced to help those undertaking window replacement or external wall insulation programmes to avoid potentially expensive and time consuming structural problems. The brochure focuses on the structural preparatory works frequently required when undertaking improvement projects of this type and explains the cost-effective well proven systems offered by Helifix to repair and strengthen the structure. Also available online are technical datasheets for the full product range and over 100 standard repair details covering all common masonry faults.

020 8735 5200 www.helifix.co.uk

John Brash solution for housing trust



JB-RED® BS5534 roofing battens and JB Western Red Shingles®, from **John Brash**, were used to deliver a sustainable roof and wall solution on the Metropolitan Housing Trust's project, the James Hayward Estate in London. John Brash JB-RED® roofing battens, the first factory graded roofing batten to guarantee compliance with

BS5534: 2003, were used on the roof and walls. All the shingles fixed to these battens were treated with fire retardant treatment to class 0, which is the highest national product performance classification, whilst the roof shingles were additionally tested to the AA rating.

01427 613 858 www.johnbrash.co.uk



Royal Road wins Best Housing Award

The **Brick Development Association** announced the winner of the Best Housing Development 26 Units or more category at the annual Brick Awards. As part of the Elephant & Castle Regeneration Early Housing Sites in the London Borough of Southwark, the affordable housing scheme, designed by Pater Hudspith Architects, consists of 96 homes, 20 of which are shared ownership, and a third are family homes with three or four bedrooms. Royal Road was delivered through a Design & Build Contract by Higgins Construction with whom the architects worked closely to ensure the integrity and quality of the building envelope. Dax Brickwork and their team of more than 40 bricklayers have created a highly crafted building. The scheme is Code for Sustainable Homes Level 4, with an intention to future proof for eventual upgrade by including high levels of insulation. Wall u-values of 0.11 W/m²K help to reduce energy demand.

020 7323 7030 www.brick.org.uk

40,000sq m roof area drained by Dallmer



Complete Projects CDM of Sheffield, who partner **Dallmer Ltd** for installations of its SuperDrain siphonic rainwater drainage, was called in to upgrade the water drainage from the roof of a former factory for IT company

RDC. Due to the nature of RDC's business, it was essential for the building to be completely water tight and a quick but cost effective solution was essential. For this work Complete Projects used a total of 54 Dallmer D62 PVC flange siphonic roof drains, each one placed to match the re-calculated siphonic roof drainage system, properly fixed in the gutter and bonded to the lining.

01787 248244 www.dallmer.com

RoofSpace solutions hits new heights



RoofSpace Solutions' innovative RoofSpace I-Roof™ system has been awarded Robust Details approval, Part E, achieving an impressive 60 decibel sound reduction, against the mandatory requirement for 45. The

fully insulated system achieves U/values as low as 0.08W/m²K within the panel with no undercloaking or additional insulating works; the wall panels achieve U/values as low as 0.22W/m²K. RoofSpace Solutions, part of **Avonside Group Services**, is working towards BM-TRADA Q-Mark Product Certification for its cost-neutral system which allows installation teams to encapsulate the roof-spaces of up to six 2.5 storey dwellings per day.

Kemperol 2K-PUR keeps Guildhall Library in business

Kemper System's Kemperol 2K-PUR waterproofing system has been used on a further phase refurbishment of London's historic Guildhall, this time to provide a new roof surface for the Guildhall Business Library.

The scheme follows the recent roof refurbishment of the Guildhall's West Wing by main contractor Linbrook Services Ltd and involves overlay of a 300m² asphalt roof featuring 56 pyramid roof lights. The brief to roofing contractor A&L Roofing Services was to complete the project within a six week programme, during which the library had to remain fully operational.

Guildhall selected Kemper System's Kemperol 2K-PUR system for both projects as its solvent-free formulation enables an odour-free installation, preventing any nuisance odours affecting staff or

visitors to the building. The cold liquid-applied system also made it possible to apply the waterproofing membrane precisely to the upstands and drainage channels of the 56 pyramid roof lights, which are located extremely close together in the central area of the roof, whilst seamlessly incorporating the entire roof.

Kemper System's Kempertec primer was applied to the roof to stabilise the substrate and provide a chemical key for the waterproofing resin. Once this had cured, the waterproofing membrane Kemperol 2K-PUR was installed. Applied in a single process, the Kemperol resin saturates a non-woven reinforcement fleece and cures to form a monolithic membrane that is UV stable, extremely tough, flexible and tear resistant, that bonds directly to the substrate.



Kemper System's non-woven reinforcement fleece was cut to size and shape on site to enable the meticulous detailing and protection of the most vulnerable parts of the roof around the roof lights, outlets and upstands as well as the flat roof areas.

Contact Kemper System today on 01925 445532 or visit www.kempersystem.co.uk



Minus 7 – the true hybrid energy harvester

The **Minus 7** hybrid energy harvesting system is a renewable energy system made up of an endothermic roofing system, a solar energy processor and a large thermal store. The system uses an endothermic tile plank to form a weather-tight interlocking roofing system, made from a uniform profile, aluminium extrusion, dressed in a powder-coated, hard-wearing finish. The endothermic tile planks are flooded with a heat transfer fluid which absorbs heat energy and solar thermal energy. The system provides hot water and heating for buildings. It is suitable for new-build or deep refurbishments where a new roof is required. It is designed to keep a five bed house at a comfortable temperature of at least 21°C even in the worst case scenario of mid-winter. Fully UK manufactured, the roofing component is expected to last for more than 50 years and the solar energy processor will last for more than 20 years.

01922 419405 www.minus7.co.uk

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For further information visit
www.follansbee.co.uk
or call **0114-236 8122**

Lifetime roofing metals

Westerland solution at Otters Brook



A new housing development in the picturesque town of Buxton, Derbyshire, features Westerland fibre cement slates from **Cembrit**. Otters Brook is a new housing development that has built to blend seamlessly into the surrounding countryside. The Westerland slates are BREEAM A+ rated ensuring a sustainable choice that combine traditional looks with modern performance.

They have a similar appearance to natural slate but require no sorting and are easy-to-cut and fix, making them the ideal choice for a large volume housing development.

Levolux gets on top in New York



Topping Rose House hotel in New York now boasts a new 'studio' building and four luxury cottages, all equipped with an attractive Timber Fin solar shading and screening solution from **Levolux**. Levolux was invited to work closely with acclaimed architects from Roger Ferris + Partners, to provide solar control and privacy screening for the new buildings. Timber Fins were supplied with

a custom 'rhomboid' shaped profile. The Fins, each measuring 150mm wide by 45mm thick, are arranged horizontally, incorporated into vertical and horizontal panels. The Western Red Cedar timber supplied by Levolux is FSC-certified, derived from sustainable sources.



Eurobond launches BIM library

Eurobond Laminates has launched BIM files for its range of stone wool cored internal and external wall and ceiling composite panels. It includes material colours and COBie datasheet parameters and the designer is supported by a wide range of construction details. The files are available in a number of file formats to help ensure that the majority of BIM users can benefit from using them. The new files are available via the company's website or by contacting the Eurobond Laminates Technical Service team. Tim Ashley, Technical Services team leader, said: "There is no doubt that BIM is rapidly becoming part of the design process and that the technology will change the way in which the construction industry operates in the future. Our BIM models will help bring ideas to life, enabling architects to be more efficient in the design process and this release of BIM files demonstrates our continued commitment to providing valuable products and tools to architects and customers."

02920 776677 www.eurobond.co.uk

Traditional Apeer-ance with a high-tech twist



Traditional good looks go hand in hand with high-tech locking thanks to a new finger-pull doorplate exclusive to **Apeer Doors**. Designed to work with the Winkhaus AV2 Heritage multi-point locking system, the new Apeer escutcheon plate with finger hook further enhances the lock's sympathetic reproduction as a period classic. It features a euro profile locking cylinder at a similar height to a traditional round cylinder pull and the

lock is operated automatically as soon as the door is closed. The new Apeer finger pull escutcheon is available now in silver and gold.

02825 632200 www.appeer.co.uk

Carl F Groupco launches CFGLock⁺



Carl F Groupco has launched the CFGLock⁺, a cable restrictor which meets CE test standards, is designed to increase safety by restricting how far windows open to reduce the risk of accidental falls. Produced for ease of use, and with health and safety in mind, the CFGLock⁺ is an economic solution, ideally suited for new, retrofit and existing installations. Designed for PVC, timber or aluminum profiles, fitting is fast and simple, with full instructions and screws supplied.

Key locking is provided as standard with a push button version available to order. A cable length of 150mm is provided. Longer cable lengths, spare keys and colours other than white are provided as special orders.

Everyone wants that new black look



Garador has launched an impressive new style option for its popular Salisbury garage door range. Fresh for 2014, black window panes are now available on this smart steel garage door. This exciting new look will add serious style to any property, plus privacy, and acts as a deterrent for burglars. The clean black look is achieved through a smooth sheet of

solid black Perspex. There are no textures or lines in the panes, emphasising the fresh modern style of the design.

01935 443791 www.garador.co.uk

Metal Technology delivers a high performance



Metal Technology System 4-35 Hi+ windows have been installed at Stoke's £22 million Ormiston Horizon Academy. System 4-35Hi+ High Performance thermally enhanced casement windows offer a wide and diverse range of profiles that will provide structural integrity, weather performance, thermal enhancement and security. The range is designed to aid compliance with the latest thermal requirements of the current building regulations. The

windows can achieve U values below 1.0W/m²K. Polyamide thermal break profiles have been designed to minimise heat transfer across the window profiles and work in conjunction with specially designed thermal gaskets and foam profiles.

028 9448 7777 www.metaltechnology.com

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AV Composites unveils 100% recycled conservatory panels at Ecobuild

AV Composites has developed aluminium panels for conservatory roofs that provide better insulation than panels made of either alveolar polycarbonate or double-glazed glass. The AV Composites panels are 100 per cent recycled (and recyclable) thanks to the fact that the insulating foam is made out of recycled plastic bottles. The panels can also be coated in a range of coloured insulating paints that match the frame's colour. AV Composites will showcase its innovative solutions at Ecobuild.

The company is offering new panels for aluminium conservatory roofs in order to make the conservatory a real living space in winter and summer alike. AV Composites provides these

panels as a substitute for traditional materials, such as polycarbonate or glass, because aluminium provides an economical and eco-friendly solution. The advantages of aluminium for the conservatory-roofing sector include the fact that this material does not rust, can be cut easily, is light, and has a life span 1,000 times longer than that of polycarbonate.

AV Composites produces insulating products, for both housing and public buildings, in accordance with new European regulations for the environment and sustainable development. These regulations include clauses concerning the greenhouse effect, in line with targets for the reduction in CO₂ emissions.



For further information about AV Composites, go to www.avcomposites.com



BRE Smart Home fit for the future

Officially opened October 2013, the newly refurbished iconic BRE Smart Home has been re-equipped with a host of ultra energy efficient features and functions to bring it in line with current legislation and the next generation of technology available. The BRE worked in partnership with a select group of suppliers including **Nationwide Windows**, who has been instrumental in making the Smart Home 50 per cent more energy efficient by halving the carbon emissions. John Whalley, Nationwide Windows' managing director, comments: "The 36 units we installed are rated at 3.3kWp and are estimated to produce on average 3,500kWh per year of electricity, while saving 1.8 tons of CO₂. Saved income is calculated as £1,200 per year." Nationwide Window's work on the project has been shortlisted for a prestigious award, reaching the finals of the G13 Environmental Initiative of the Year.

01788 569 228 www.nationwidewindows.co.uk



Towering success

Architect Broadway Malyan selected concealed TECTUS hinges from SIMONSWERK for its 'The Tower' development— a prestigious new 180m tall, 50 storey UK residential project in London's Vauxhall, containing 223 deluxe apartments. The luxurious interiors feature extensive use of highly polished wood paneling set with heavy American Walnut doors. To achieve an uninterrupted flush finish timber face, SIMONSWERK TECTUS concealed hinges were specified for these internal doors and additionally for the front door from the lift lobby into the apartments and some interior cupboard doors. Architectural Ironmonger Interior Hardware commented: "These are extremely high specification apartments and the designers were very clear that the fittings and finishes should be of the highest order. The large American Walnut doors required a heavy duty hinge which was also concealed so TECTUS was the obvious choice. They liked the product and the technical back-up provided by SIMONSWERK and expanded the specification to include the majority of the en-suite bathrooms and dressing room doors."

Holme Mills, Bedfordshire

Standing on the banks of the River Iver, Holme Mills – first mentioned in the Domesday Book – was one of Bedfordshire's major producers of animal feed and flour. In the 19th century the mills suffered two catastrophic fires, presenting the owners, the Jordan family, with the chance to completely rethink their traditional working methods, replacing the original millstones with a more efficient metal roller system and the waterwheel with a water turbine in the new four-storey premises.

From the early 1970s the mills produced the famous Jordans breakfast bars and cereals but recently a new mill was built nearby thus allowing the original Holme Mills to be refurbished and restored and a new visitor centre constructed to provide a riverside café, meeting rooms and a mill store.

As part of this refurbishment the original metal framed windows needed to be fully overhauled and made thermally efficient, in order to provide a more comfortable environment. As it was not possible to replace the windows the solution to this



problem was secondary glazing. The secondary glazing had to respect the original window design and so a slim hinged casement with flush colour matched hinges and flush lock was specified.

Selectaglaze was chosen to carry out this work

using their slim line Series 45 system, one of four hinged systems in the company's range. Each window is bespoke and fitted with close tolerance to exclude draughts and reduce heat loss in the region of 50 per cent.

Call 01727 837271, email enquiries@selectaglaze.co.uk or visit www.selectaglaze.co.uk



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For Vitrabond UK, contact Valcan Architectural. T: 0844 800 7131 F: 0844 800 7130 E: enquiries@valcan.co.uk

Reynaers achieves Secured By Design approval



Reynaers Aluminium is one of the first aluminium systems companies to achieve the coveted Secured by Design 'Police Preferred Specification' for its sliding systems. The approval covers three Reynaers sliding systems including the versatile CP 130, the thermally insulated CP 155 and the popular CF 77 for use on new housing developments, including individual housing and apartment blocks. "Early on we recognised the need for security assured sliding doors which came under the 2010 Secured by Design new homes guide. This was further reinforced by the recent official introduction of sliding doors into the PAS 24 2012 standard," said John McComb, technical director. "Achieving the highly coveted Secured by Design approval for our sliding systems is a major achievement."

VBH launches greenteQ hardware catalogue



Hardware supplier VBH has launched the latest issue of the popular *greenteQ Window & Door Hardware & Ancillaries* catalogue. This is the biggest so far and includes all the greenteQ products launched during the course of 2013. These include stainless steel lever/lever and pull handles, the Sigma Compact door hinge, new Kappa Pony Tail and Doctor door knockers, Alpha inline sliding patio door handles, Clearspan hardware for aluminium bi-fold doors and more. All greenteQ products

are covered by a comprehensive 10-year guarantee with the exception of the Alpha 25 stainless steel door handle which, as the name suggests, is backed up by a 25-year guarantee. The catalogue can be obtained by visiting the website.

greenteQ pulling power from VBH



Hardware distributor VBH has added stainless steel pull handles to the greenteQ hardware range. The series was developed by VBH in Germany, where doors are commonly fitted with key operated (wind-up) locks and pull handles have long been used in place of a lever handle set. The range consists of nine basic designs, many of which are available with options of 90° or 45° projection, and with standard or extended legs. All greenteQ pull handles are manufactured from hard wearing 1.4301 austenitic stainless steel (grade 304-A2), which provides good resistance to weather- and pollution-associated corrosion.

01634 263 263 www.vbhgb.com

Senior's diversity is evident at Pannelcroft



Glazing systems designer and manufacturer, Senior Architectural Systems, has provided all aluminium door and window systems at a recently completed Birmingham-based Extra Care Charitable Trust residential development. Fabricated and installed by Elite Aluminium Systems, Senior's SPW600 windows and doors

were integral to the success of the project. Senior systems were specified throughout the complex as the diverse product range, from systems for the main atrium to those for individual accommodation including balcony doors, provided a one stop shop for the main contractor, which eased site programming.

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Copper at the seaside



Wilkinson Eyre Architects' recently completed Splashpoint Leisure Centre in Worthing is clad in Nordic Standard copper from Aurubis Architectural and red cedar – a palette of self-finished, natural materials selected to age gracefully

and withstand the aggressive conditions of its unique maritime location. Its design is defined by sinuous, ribbon-like forms linking land and sea – likened to a series of twisting sand dunes. Copper and timber were chosen as materials that complement each other well and that form part of the English seaside tradition.

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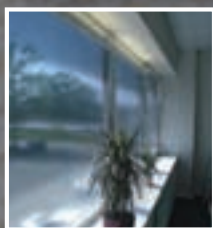
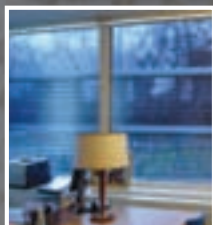
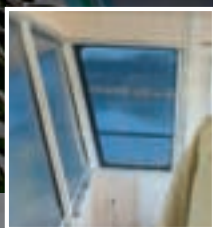
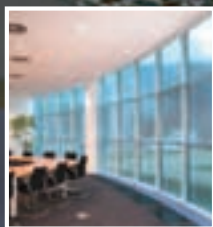
Kingspan OPTIM-R solves problem areas



With energy prices rising, delivering a high level of fabric thermal performance on buildings has never been more important. Kingspan Insulation has published a series of four application brochures for its latest range of problem solving products. The application brochures for the Kingspan OPTIM-R range of systems demonstrate how to deal with difficult areas such as balconies and terraces, dormers, rainscreen and external wall applications. OPTIM-R panels use vacuum technology, enabling them

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01544 387 384 www.kingspaninsulation.co.uk



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* Accredited data reports from Sonnergy of Oxford - copies available on request

Introducing Cool-phase, Monodraught's Low Energy Ventilation and Cooling System

Monodraught has announced the next generation of its award-winning Cool-phase system, representing the company's latest innovative application of phase change material (PCM) as a thermal energy store to actively ventilate and cool buildings

Cool-phase is a low energy cooling, ventilation and heat recovery system that reduces the running costs of buildings while creating a fresh and healthy indoor environment without compressors or hazardous coolants. The system uses intelligently controlled phase change material (PCM) to actively ventilate and cool buildings, maintaining temperatures within the comfort zone, while radically reducing energy consumption by up to 90 per cent compared to conventional cooling systems.

The improvements provided by the new generation follows an intensive and all-encompassing two-year development programme during which the Monodraught R&D team has applied innovative new design practises and some of the most advanced manufacturing technologies available to create ground-breaking improvements.

As well as dramatically reducing design and development time the programme has provided significant enhancements and improvements in almost every aspect of the Cool-phase system.



Contact Monodraught today on 01494 897700 or visit www.cool-phase.net

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www.apolloradiators.co.uk

Kingspan Insulation expands online offering



Being able to instantly access information and have the opportunity to participate in discussions is becoming increasingly important and with this in mind **Kingspan Insulation** has revamped its online offering. A new series of resources has been launched to provide simple access to the latest product and industry information through a variety of media including a

blog, twitter feeds, and dedicated microsites. Marketing Director John Garbutt said: "Online and social media has become an integral part of everyday life both at home and in the workplace, and as a result we want to ensure our customers can access the latest information and news through a channel that suits them."

01544 387384 www.kingspaninsulation.co.uk

RVC gets the Kingspan treatment



The Hertfordshire Campus of the Royal Veterinary College (RVC) has been further enhanced with the construction of a RIBA Award winning Student Village featuring over 6500m² of **Kingspan Insulation** premium performance Kooltherm K15 Rainscreen Board. It was installed as part of the external wall build-up to help minimise heat loss. The product holds LABC System Approval for use in rainscreen applications and features a highly insulated core delivering thermal conductivities as low as 0.020 W/m.K.

01544 387 384 www.kingspaninsulation.co.uk

Altecnic extends TMV2 range



Altecnic is extending its range of fully accredited thermostatic mixing valves (TMV) designed specifically for centralised systems. The 28mm WRAS approved 521928 TMV2 has a working pressure of 14 bar and is suitable for multiple outlet installations which demand high flow rates.

The fully immersed sensor is located in the mixed water outlet which allows it to quickly react to changes in temperature. Altecnic's TMV automatically responds to changes in water pressure at peak usage times to maintain the mixed outlet water at a safe temperature. The valve is supplied with union tails which incorporate compression connections for a secure fit.

Venting the extension where it joins?



With an airflow rating of 25,000mm² per running metre, the Roof Abutment Ventilator from Cavity Trays provides a novel way of achieving requirements for roof ventilation when extending a property, while complying with the damp protection measures demanded within the Building Regulations. A timber upstand is fixed to the existing wall utilising vertical stand-off

battens to maintain an airflow path between it and around the decking edge. The Type RAV-FL is secured by opening like a book and fixing via its pre-drilled holes to the top of the timber upstand. The remaining section is then closed so it finishes against the masonry where it also is secured through its pre-drilled holes.

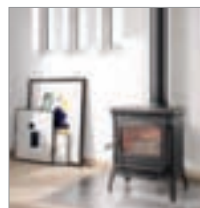
E.sybox guarantee and wall bracket introduced



Following the launch of its e.sybox low water pressure boosting system, DAB Pumps says it has gone one step closer to creating complete peace of mind by introducing a three year guarantee and a wall mounted bracket system, making installation even easier. The e.sybox helps installers save time and money by bringing a 'plumb and play' dimension to installation. The new wall mounted bracket system called 'e.sywll' allows the pump to be

installed directly onto the wall in locations where floor space is minimal. With its specially designed casing and variable speed motor, the e.sybox pump offers extremely low noise levels. Now, the addition of the three year guarantee means not only will there be peace within the building but peace of mind too.

Eurostove introduce the Craftsbury stove



Eurostove has introduced the beautifully crafted but highly functional model Craftsbury from their Spanish supplier Hergom. The Craftsbury design is traditional and elegant with pure lines and a textured cast iron surface, but this belies a highly functional stove that is designed to be easily placed at any position in the home. In terms of performance the Craftsbury is tested to the USA standard with an EPA

rating of 3.2 grams/hour of particulates and the soapstone lined firebox both absorbs and holds heat. Three finish options make this latest stove from Hergom and Eurostove one of the most advanced and stylish in its class.

01934 750 500 www.eurostove.co.uk



Demista

Added value at minimal cost to any new or refurbished bathroom must be the inclusion of a demista™ heated mirror pad. This pad is easy to install, and will ensure a steam free mirror at all times, no matter how steamed up the bathroom. The heated mirror pads are available in a variety of sizes to suit most mirrors and in the case of a particularly large surface, they can be used in multiples. Running costs are minimal and ideally, once wired in to the lighting system, they will gently warm the mirror when the bathroom is in use.

Why suffer the unsightly view of radiators when you can have under floor heating? Cosyfloor™ electric under floor comfort heating gives overall gentle warmth, controlled by a programmable thermostat, and, with sister brands Ecofloor and Ecomat, is ideal for most solid floor surfaces.

Both Cosyfloor™ and Ecofloor are earth screened so they can be safely used in areas such as bathrooms, wet rooms, laundry rooms and kitchens where water spillage is expected. The cable kits can easily be configured around immovable objects to achieve optimum coverage and results.



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Training on your doorstep



Introducing a brand new training initiative for ventilation installation training, **Greenwood Airvac** launches the first mobile ventilation rig that brings BPEC accredited training courses to your doorstep – BPEC2U.

The first of its kind, the mobile rig is

part of the fully accredited BPEC training to provide practical training for their Domestic Ventilation Installation training course. Comprising a fully functional heat recovery system, semi-rigid ducting, plus the facility for power testing and balancing as required by BPEC, the rig gives installers hands-on experience in the installation, inspection, testing and commissioning of ventilation systems.

Ecodan wins at NHIC Awards

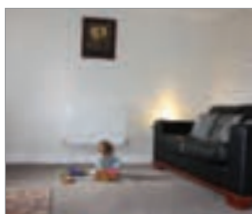


Mitsubishi Electric's fourth generation of Ecodan air source heat pumps has just been recognised as 'Best Home Energy Solution' at the National Home Improvement Council Awards. The judges praised the system for providing: "a sustainable way of reducing the

burden of energy costs for tenants and those struggling in these tough economic conditions." Ecodan units have now been installed in thousands of homes right across the UK and the system remains the only air source heat pump to receive the prestigious Quiet of the Noise Abatement Society.

01707 282880 www.mitsubishielectric.co.uk

Ecodan keeps heating bills down



The installation of an Ecodan air source heat pump from **Mitsubishi Electric** into a three bedroom detached house in Bedfordshire has demonstrated how effectively the heat pump will work in conjunction with traditional heating systems to maximise efficiency and reduce both installation costs and emissions.

The 5kW Ecodan and pre-plumbed 180-litre cylinder is working as a hybrid heating system with a gas boiler and a wood burning stove, to provide all the heating and hot water the family of three needs. The system has returned a COP (Coefficient of Performance) of 3.0.

01707 282880 www.mitsubishielectric.co.uk

ecoPANEL™ – A low cost energy saving heater



A new panel heater, being launched by **Orbital Enterprises**, is set to revolutionise the electric heater market. ecoPANEL™ heaters are a new slim-line solution for providing efficient room heating, with running costs as low as 2p per hour. Using convection technology, the heater manufactured from

a composite based cement material has many benefits over existing heaters. The heater has two heat settings (200W and 400W) and a built in adjustable thermostat. ecoPANEL heaters can also be installed in less than five minutes without the need for hard wiring and can be painted to match the decor of the room. The 545mm x 645mm and 12mm heater comes with a two year warranty as standard.

0845 486 8080 www.ecopanelheater.co.uk

Biomass boilers with intelligence from Euroheat



With domestic-scale biomass set to become more popular thanks to next year's RHI, end users – particularly in off-gas areas – will be looking at the different options when it comes to wood heating. Providing the ultimate in versatility is **Euroheat's** TDA Thermomodule which, available in outputs between 15kW – 40kW, can burn logs or pellets and switch between these fuels automatically. Simon Holden of Euroheat said: "The TDA Thermomodule is just what many UK customers are looking for when they come to replace their old heating system or are building a new home. Let's take a very typical example: a largish country home wanting around a 35kW boiler. The customer has a supply of logs or even waste wood but also the family want to be able to leave the house and let the heating carry on without them. The TDA Thermomodule models will give them the best of both worlds. The boiler can be fired with logs or other dry wood, manually, and then, when this is consumed the boiler automatically switches over to its built in pellet hopper which can hold up to 130 kg of pellets, giving automatic operation typically for up to 36 hours (4-5 days usage). Even longer periods of automatic operation are available by connecting the boiler to a remote pellet store with an automatic screw feed or an air powered delivery system. Ignition is also automatic. The pellets are ignited and then any wood in the log chamber is burnt, if additional heat is required, the boiler reverts to back to pellet burning."

Summit Place reaches the peak of safety with SE Controls



An advanced smoke ventilation system from **SE Controls Africa** is helping ensure that in the event of a fire, occupants of Pretoria's prestigious Summit Park office development are provided with smoke free escape routes to optimise evacuation times and enhance safety.

The three multi-storey office buildings within the development use high end energy efficient glazing in the design, which includes the high level glazed atriums that run along the length of each building. SE Controls worked closely with the project's specialist glazing contractor Diri Aluminium and smoke ventilation specialists Curvent International to create a fully automated system for the three buildings, which is linked into the Summit Place smoke and fire monitoring system. Using compact SECO N 24 40 actuators with a 600mm stroke length in all the buildings, together with 24 Volt dc OS2 controllers and manual control point (MCP) switches, the glazed atrium and window vents automatically open in the event of a fire, enabling smoke to be released and keep escape routes clear.

Russell Cramb, general manager with SE Controls Africa, explained: "This is one of a number of major projects that we have completed and we were delighted to have played our part in such an important development."

New Year, new website for AET Flexible Space



AET Flexible Space, manufacturer and supplier of under floor air conditioning (UFAC) systems, has launched an updated and modernised website at the beginning

of 2014 to replace the former site. The new site has been created to provide up to date information on the under floor air conditioning systems and other heating ventilation and air conditioning (HVAC) products which AET Flexible Space can offer. As well as being a resource centre the new website highlights the benefits of adopting UFAC systems as an alternative to traditional ceiling based systems for air conditioning commercial work space.

01342 310400 www.flexiblespace.com

Heat pump calculator ready for RHI



Mitsubishi Electric has launched a dedicated Ecodan selection tool to coincide with the government's announcement that heat pumps are now included in the non-domestic Renewable Heat Incentive (RHI). The new Ecodan selection tool allows anyone to examine the viability of heat pumps

for their building and shows both running cost comparisons against other technologies and payback periods, which take the RHI payments into account. The Ecodan selection tool allows anyone with an interest in heat pumps to get an insight into what this technology could deliver to any building

01707 282880 <http://heating.mitsubishielectric.co.uk/ecodanselectiontool/Pages/default.aspx>

RHI will drive heat pump interest at Ecobuild



Mitsubishi Electric is inviting anyone who wants to know more about the Renewable Heat Incentive (RHI) and understand the role heat pumps can play to visit stand N2210/11 at Ecobuild. The heat pump manufacturer will be promoting the advantages of the Ecodan range, whether for domestic or non-domestic situations, in both old and new-build properties and

staff will be available to explain what the scheme means to both domestic and non-domestic heat pump projects. Ecodan pumps qualify for the RHI scheme and are available in individual units from 4kW to multiple systems up to 688kW, with the ability to work in tandem with other heating technologies.

01707 282880 www.heating.mitsubishielectric.co.uk

Live action from Greenwood



Greenwood Airvac launches its own, dedicated YouTube channel – it's lights, camera, action all the way. Giving installers the opportunity to see product installations and set-up in real time, the channel is currently showcasing the latest Greenwood CommissionSMART™ technology, as used

in its recently launched Vireo heat recovery unit. Demonstrating the ease of set-up and commissioning, Greenwood Technical Services Advisor Barbara takes installers through the eight simple steps to delivering Guaranteed Installed Performance. You can also see details of its new BPEC2U training course, as well as the configuration of its safe and secure intermittent window fan installation kit.



Obviously

With measured savings of up to 60 per cent compared to conventional systems, there shouldn't really be any need to tell you about how easy this system is to install, or the fact that it is so durable that it can even be nailed through without affecting performance, or that at only 1mm thick it can be fitted pretty much anywhere, even on walls, or on the decks of trawlers, or that it is the only system which is completely safe to fit directly under carpet, or that it is made from recycled materials and is completely recyclable.

But the guys at UK Warmfloor will tell you, because they are very, very proud of it.

Welcome to the future of heating.

www.ukwarmfloor.com
info@ukwarmfloor.com
 01262 468600



Warmup

Warmup Insulation boards have a key role to play in maximising the efficiency of underfloor heating. Insulation is not only needed to comply with Building Regulations, but improves efficiency, increases the responsiveness of your heating system and ensures heat generated within the dwelling is not lost. Warmup offers a wide range of insulation, in a choice of thickness and compressive strengths to suit your project and budget. According to its research, this efficiency usually pays for the cost of the insulation boards in two and a half years. The use of insulation is optimised with Warmup electric and hydronic underfloor heating systems tested in its EN442-2 Research Centre in Germany and various post occupancy monitored houses including BRE (Building Research Establishment) Renewable House. Products are supported with the best warranties and SafetyNet™ installation guarantee. Warmup also offers controls including the 3iE Energy-Monitor Thermostat, which can save you at least 10 per cent on your energy bills, altogether creating the perfect heating system. Save energy and money with Warmup.

Tel: 0845 034 8270 www.warmup.co.uk

Specification at your fingertips



Greenwood Airvac launches its first app to support architects, specifiers, and developers in the specification and installation of its products. Quick and easy to navigate, the new app brings together a complete library of Greenwood literature including product brochures, installation guides, Building Regulation documents and

homeowner operation and maintenance handbooks. A comprehensive source for everything Greenwood, the brochure app puts the world of domestic ventilation at your fingertips, and with regular updates and additions it's an invaluable tool for anyone involved in the specification, design and installation of ventilation systems.

New controller maximises energy efficiency



Mitsubishi Electric has launched a new air conditioning controller that includes the intelligent energy-saving ability to automatically detect when meeting rooms or areas with infrequent use are unoccupied. The PAR-U02MEDA wall controller includes an occupancy sensor that will switch off the airconditioning if it detects that the room or

space is vacant. The detector can also be used in conjunction with an active timer so will only operate when programmed. It will also switch off at pre-set temperatures to ensure a comfortable, yet highly energy efficient performance.

01707 282880 www.mitsubishielectric.co.uk



Specflue

Attendees at Ecobuild this year will be able to visit Specflue on Stand N1935 and find out how to take full advantage of the roll-out to domestic properties, of the government's Renewable Heat Incentive (RHI) in summer this year.

As well as viewing the products, there will be a chance to talk to the technical team behind Specflue's renewable heating range which includes thermal stores, solar panels pellet stoves and boilers. Members of Specflue's dedicated training facility will also be on the stand to give advice on its programme of courses for installers of renewable heat products.

Head of Business Support Services Jed Smith commented: "Specflue is a bit of a one-stop shop when it comes to renewables. Visitors to our stand can come with absolutely no knowledge at all and walk away with the information they need to learn about the full range of renewable heat products available and their costs, as well as how to understand RHI and position themselves to take full advantage when it is launched."

Tel: 0800 9020220 www.specflue.co.uk

Animations highlight heat pump benefits



Mitsubishi Electric has launched two new online videos to highlight the benefits of renewable heat pump technology for both homeowners and landlords. The first animation focuses on how the Ecodan range can offer reduced running costs, ease installation and lower carbon emissions for social

housing providers and landlords. The second video looks at the issues from a homeowner's point of view and highlights how renewable Ecodan can provide a viable, cost-effective alternative to the escalating price of oil heating.

01707 282880 www.heating.mitsubishielectric.co.uk

LE155 Ventilation units defeat damp



It's a fact that inadequately ventilated and tightly sealed properties can suffer from mould and condensation, leading to problems for occupants. A block of flats in south London was saved from this situation with the installation of Johnson & Starley's LE155 ventilation systems with heat recovery. Not only does the

LE155 ventilate the property, but it also removes cooking smells and other pollutants from the air – all with minimal heat loss. The units are designed to be installed conveniently on walls, in cupboards or above cooker hobs, with the addition of an optional cooker canopy. The LE155 units are SAP Appendix Q listed and incorporate energy efficient EC Fans.

Radicals selected for university project



Stelrad Radiators has seen its award winning energy saving radiator Radical specified in the latest Eco House built on the campus at Nottingham University. The Mark Group Eco House has been designed and built with a range of highly energy efficient heating and ventilation technologies. The designers

chose Radical radiators from Stelrad for the first floor. Full details of the Radical radiator can be found at the company's website.

0844 543 6200 www.stelrad.com

New Vortice twin & acoustic box fans



Vortice has launched a new range of twin fans and acoustic box fans, designed to run so quietly they are ideal for use in applications like museums and libraries. The twin fans can either run on a duty share basis, or as one fan running normally and the other as a standby. Requiring virtually no maintenance,

these fans involve long runs of ductwork and have PIR sensors and Class O lining in the boxes for ultra quiet running. The acoustic fans have the same application as the twin fans, but with a single fan rather than including a back-up.

01283 492949 www.vortice.ltd.uk

Xpelair reaches the 'gold standard'



Xpelair has joined the ranks of the elite club of manufacturers offering Passivhaus certified products – the gold standard in low-energy housing. This came following the news that two of its MVHR products meet the exacting Passivhaus standards. Xpelair's Xcell 300 and Xcell 400 ranges have been awarded the certification thanks

to its superior levels of energy efficiency and the potential both systems have to achieve significant carbon emission reductions. The accreditation will give installers and consumers peace of mind when purchasing the right products to achieve the highest environmental standards.

0844 372 7750 www.xpelair.co.uk

Pumping related CPDs from Wilo UK



Wilo UK is pumping up knowledge levels by providing hands-on continuing education and further education in pumping solutions and related subjects via its popular CPD programme. Currently available from Wilo are RIBA accredited CPDs under three topical areas of knowledge: *The Benefits of High Efficiency Pumping*, *A Guide to*

Rainwater Harvesting Systems and *Surge Protection – Designing out Hydraulic Shock*. Contact Wilo UK or visit the website for information.

01283 523000 www.wilo.co.uk

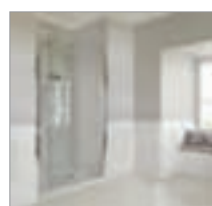
Panasonic launches high efficiency radiators



Panasonic has announced the launch of its new range of radiators, Aquarea Air. With an innovative layout of the ventilation unit and heat exchanger, the Aquarea Air's slim and elegant design makes it a stylish alternative to traditional radiators. The Aquarea Air fan is tangential with asymmetric blades and with a

large surface area heat exchanger, it enables high airflows to be achieved with both low pressure loss and low levels of noise. Unlike traditional cast radiators, the Aquarea Air requires a lower temperature on the incoming water circuit at just 35°C and with exceptional ventilation efficiency; the motor uses considerably less energy making it 32 per cent more efficient than standard radiators.

New bi-fold showering from AQATA



AQATA has introduced two new shower enclosures for 2014. The Spectra SP480 bi-fold recess (shown) and the Spectra SP481 bi-fold corner options are characterised by beautifully designed bi-folding doors, offering space saving solutions for small bathrooms. The enclosures feature minimal styling and clean lines which add

to the feeling of light and space. The inward opening bi-fold door allows the maximum usable floor space outside the shower whilst providing ample showering room inside, with water drips safely contained within the enclosure when opening and closing the door.

01455 896500 www.aqata.co.uk

Intuitive concealed thermostat sets

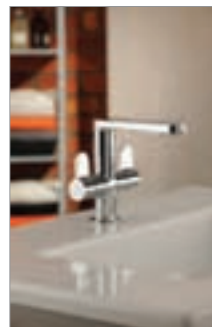


As part of the Select programme from Hansgrohe, the new ShowerSelect concealed thermostat sets make selecting and turning the different functions on and off both intuitive and pleasing. There are no complex electronics, just a reliable mechanical control that is easy to install in conjunction with the tried and tested iBox from Hansgrohe. The new sets are available in five different functional versions, ranging from a thermostat with a simple on/off

function for one outlet through to a combination featuring ShowerSelect for up to three different functions with a separate thermostat.

01372 465655 www.hansgrohe.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

Relcross give washrooms the WOW factor



First impressions count and it is surprisingly simple and inexpensive to create a strikingly stylish washroom with a 'wow' factor. Relcross offer a range of high quality, stainless steel washroom accessories under the Diplomat brand name. With unique dual-curve geometry, these commercial-grade accessories are a sleek and elegant finish to any washroom. The Diplomat range includes roll-towel dispensers available in manual or sensor activated options. Customers will be able to hide owner supplied products as most popular brands will fit. This allows them to maintain a single look throughout the washroom. Combination dispenser/waste bins are also available. The range also includes folded towel dispensers, waste containers with an internal hook system to conceal rubbish bags and toilet tissue dispensers that dispense freely with no binding. The automatic soap dispensers accept all liquid soaps and hand sanitisers and have been tested to hundreds of thousands of cycles in high traffic settings. Other products include napkin/tampon vendors and seat cover dispensers. All locks are easily accessible and a single key opens all models for convenience and fast service. For specifiers, Relcross can provide REVIT® files for BIM.

01380 729600 www.waterlesscartridges.co.uk

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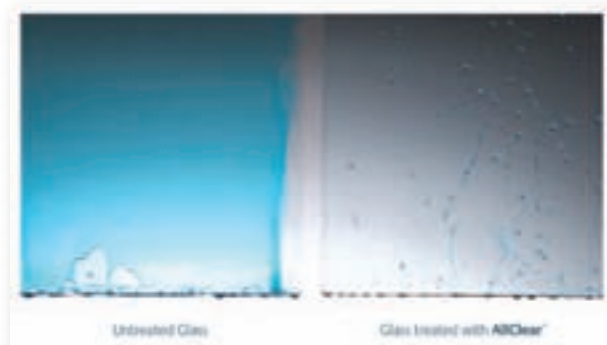
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Lakes Bathrooms

Shower specialist Lakes Bathrooms is expanding its discount offer on its AllClear® Surface Protection System for all consumers, previously only available to those purchasing shower enclosures from the Classic or Coastline Collections. A 25 per cent discount is now available for a limited time on all online purchases of the AllClear Surface Protection System; a complete kit designed for home application of the high performance stay-clean coating, suitable for maintenance of treated glass and for use on an array of household surfaces. AllClear is a hydrophobic, invisible, stay-clean coating that repels water, limescale, dirt, soap scum and other deposits to protect the sparkle of bathroom products; giving glass 20 per cent greater brilliance. The AllClear Surface Protection System is a complete kit contained in a sturdy plastic tub. It includes a jar of surface restorer and abrasive pad for pre-application cleaning, a nylon buffer and microfibre polishing cloth, plus the all important AllClear SWIFT™ coating in a spray. Application takes only a few minutes and each Surface Protection System contains enough to provide approximately 1.6 square metres of coverage. The kit normally retails at £40.47, but with the discount now on offer it is available online from Lakes Bathrooms for just £30.35.

Tel: 01684 853870 www.lakesbathrooms.co.uk

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.

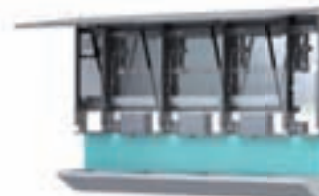


t: 01424 20 22 24 www.dolphindispensers.co.uk



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Hudson Reed launches new 2014 brochure



Look out for the fantastic new brochure from **Hudson Reed**, featuring 240 pages of everything you need to create a beautiful bathroom. New additions to the brand include some fantastic new standard baths with round options being added to the popular single and double ended bath ranges. All the latest shower panels and fixed heads proudly take their place alongside some more new additions. There is also a brand new modular furniture range available, called **Horizon** – in two stunning wood effect finishes, ideal for creating a truly bespoke bathroom.

01282 418000 www.hudsonreed.co.uk

Washroom Washroom shapes up



Washroom Washroom has demonstrated its flexibility for producing bespoke design, during a refurbishment project for **Fitness First**, which features its stunning **Luminoso** range manufactured in vibrant blue for the first time in the UK. Washroom's **Luminoso** cubicle range, with its cast acrylic construction, provides

a practical, ultra durable solution, while also creating a more uniform polished finish. The range, which also features stainless steel tubular headrail and pedestal legs, can be specified in any colour, allowing architects to create a wholly unique space without compromising on design.

A grand tour of projects in the latest A Book



Far from having to travel the globe, all that architects and interior designers need for inspiration on specifying interior solutions is contained within **Armstrong Ceilings' A Book** for 2014. Regardless of the culture, climate, client, complexity or cost implications of a project, the new **A Book** proves that Armstrong has a ceiling solution for even the most demanding of briefs and contemporary environments. The showcase features a variety of

stunning UK and world-wide new-build and renovation case studies in the office, retail and leisure, transport, education and healthcare sectors.

0800 371849 www.armstrong-ceilings.co.uk

Com-plete solution to accessible toileting



A 'mix and match' package is enabling operators of buildings to which the public have access to optimise the inclusivity of toilets and washrooms. **Clos-o-Mat**, one of the UK's largest supplier of specialist toileting solutions for disabled people, has devised a solution that encompasses options from a basic Building Regulations Approved Document M

toilet, through to an all-encompassing hygiene room. Under the package, **Clos-o-Mat** can provide design advice, supply, installation, commissioning and maintenance of fixtures and fittings required to create a Document M toilet through to a fully-equipped hygiene room or Changing Places toilet.

0161 969 1199 www.clos-o-mat.com

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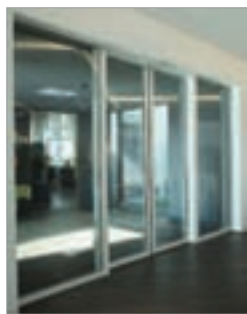
Call us today on
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or email your plans to
quote@altitudealuminium.co.uk

Visit our website
www.altitudealuminium.co.uk



New fire-resistant steel sliding door



New to the comprehensive range of steel windows, doors and façades available from **Schueco Jansen** is the Janisol 2 Fire-Resistant Sliding Door. This combines an elegant appearance with a high level of protection against flame and heat. Constructed from tried-and-tested Janisol profiles and engineered to allow an inward (break-in) or outward (break-out) direction of escape depending upon location, this versatile new door is available in either a single-leaf or a double-leaf configuration.

01908 282111 www.schueco.co.uk

Technical tiles inspired by nature



Solus Ceramics introduces the exciting Fissure range, an innovative series of porcelain tiles that has been developed with revolutionary technology to mimic the natural beauty and texture of stone. Fissure is available in four versatile sizes including 600x600mm, 300x600mm, a super large format 600x1200mm and a plank shaped

200x1200mm variation. The range centres around four main colours; black, grey, white and beige. Each colour is also available in a lined crosscut option or a more abstract vein cut alternative, which reflects the ways natural stone can be cut to create different textures.

0121 753 0777 www.solusceramics.com

Scolmore introduces Inceptor Micro



Scolmore Group has announced the introduction of Inceptor Micro – a fire-rated, integrated LED downlight with a high-powered, compact, pre-wired driver and flow connector, including a choice of fixed and adjustable bezels. The compact size of the driver gives the Inceptor Micro an overall height of only 55mm which

means it can be fitted into a very shallow recess depth of just 50mm, making it one of the most flexible fittings currently available. It will be available in dimmable and non-dimmable options, both packing a lot of power into a very compact design and offering Part L Compliance for domestic installations (as of 2013).

01827 63454 www.scolmore.com

Inspirational doors: JB Kind's 2014 collection



JB Kind's 2014 Door Collection is packed full of exclusive designs. From cutting edge contemporary to stunningly stylish, you'll be able to find something to suit your project and budget. With nearly 200 doors, including an incredible 39 new additions, you'll be thrilled at how much choice you'll find. If it's individually tailored doors you require, JB Kind can also create affordable bespoke solutions. Fully accredited FD30 fire doors, special sizes, alternative designs and FSC® chain of custody certified products are all available.

01283 554197 www.jbkind.com

The VEKA UK Group returns to Fensterbau



The **VEKA UK Group** is proud to be exhibiting at the world-renowned Fensterbau exhibition for the third consecutive time. The industry-leading systems supplier will be flying the flag for British manufacturing and high quality UK products at the

Nuremberg-based show. Visitors can expect to see a host of products from brands within The VEKA UK Group, including the chance to get a 'sneak peek' at products which are yet to be unveiled to the industry. Sales and Marketing Director Colin Torley explains: "Fensterbau is a superb platform for our products and is one of the premier events for our industry." Fensterbau will be opening its doors from 26-29 March. The VEKA UK Group can be found in Hall 6, stand 6-341.

01282 716611 www.vekauk.com

Not your usual safety floor



Function usually comes before form – but not with **Tarkett's** new Safetred Design Collection. Carrying on the company's reputation for manufacturing beautifully designed yet high-performance flooring, the range has been created using high-end design principles while still delivering the benefits of slip-resistant safety flooring. The

new collection includes 26 designs, a Loose Lay construction option and comes with a range of accessories to make the fitting process easier. Manufactured in the UK, the Safetred Design Collection uses a minimum 37 per cent recycled content and is the first sustainable safety flooring available in a tile design.

01622 854040 www.tarkett.co.uk

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www.glazpart.com/products/trickle-ventilation/



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www.todd-doors.co.uk

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Three is the magic number for Beko



Beko has launched its new three door fridge freezer model, extending its 'multizone' technology into the 60cm category. In addition to being a standard fridge freezer, the middle door on the appliance houses a compartment that allows householders to easily change the temperature between a fridge, freezer, chiller or wine cooler with the touch of a button. The brushed steel CFF6873GX is frost-free and has a storage capacity of 270 litres. Boasting blue light technology to keep fruit and vegetables fresher for longer, this model is an ultimate in cooling technology, offering consumers a range of chilled storage solutions for their home.

01923 810801 www.beko.co.uk

Abode



The new Abode Aurora temperature indicating monobloc kitchen tap has been designed to demonstrate accurately the temperature of the water exiting the spout. The unique LED base ring changes colour with the temperature of the water passing through the tap. This unique safety feature allows a clear visual colour display of the ambient temperature of the water. Red for hot, blue for cold and a stream of pink shades for tepid water in between. The tap is available in

chrome only and is simple and quick to install with the temperature sensors housed within the tap body.

Tel: 01226 283434 www.abode.eu

Sentrii Pro gate locks



Sentrii Pro gate locks, from **Signet Locks**, are a professional and stylish range of gate locks designed and built in the UK.

- Providing simple, convenient and effective solutions for locking gates
- Bolt on or weld in ranges with option of deadlock, latch deadlock, latch only or keylatch
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Designers go with the grain

NEACO is experiencing a surge in demand for wood-effect handrails and balustrades following the specification of its Timberline system in a wide range of recent projects. Architects and specifiers from a variety of sectors have used Timberline's intricate reproduction of oak grain to provide rich texture to their design scheme. Many of these developments have involved the refurbishment of historic and listed buildings which are ideally suited to the traditional aesthetic provided by Timberline. Impervious to surface deterioration and bacterial infection, the system's maintenance-free durability and hygienic qualities represent a clear advantage over real wood which has been recognised by numerous designers. Richard Richardson-Derry, NEACO's national sales manager, said: "Real wood is very appealing aesthetically but requires ongoing treatment to maintain its appearance and prevent absorption of bacteria and control infection. With Timberline, designers can achieve the natural beauty of wood grain without the practical problems associated with it."

DeckSafe Solutions



DeckSafe Solutions has received a huge boost thanks to having its Anti-Slip Convex Decking Strips nominated as 'Product of the Week' by The Daily Mirror's DIY expert, Donny Sheridan. DeckSafe's Convex Decking Strips provide an excellent alternative to the high maintenance and upkeep of timber decking. Designed to fit directly onto existing timber decking, the unique chamfered edges ensure a low profile fit, thereby removing any trip risk. Available in either 50mm or

100mm widths and in lengths up to 3,000mm, the strips are available in aesthetically pleasing colours of black, beige or yellow, providing the finishing touch to any decking area.

Residential Safety updated



The latest issue of *Residential Safety Update*, which looks at in depth issues surrounding fire and carbon monoxide safety, has been published by smoke, heat and CO alarm manufacturer **Kidde Fynetics**. The growth of regulations demanding carbon monoxide alarms is studied, along with initiatives by Red Kite Community Housing and Glasgow Housing Association. Alongside news and case studies, it also showcases the latest Kidde developments with smoke,

heat and CO alarms. New information is reviewed with online videos covering wireless smoke/heat alarm installation and carbon monoxide issues, as well as an updated edition of Kidde's comprehensive *Fire & CO Safety in Housing Guide*.

www.smoke-alarms.co.uk <http://tinyurl.com/ljw454f>

Tufted cricket surfaces come out on top



Tufted synthetic turf cricket surfaces are nearly twice as durable as woven ones, according to new independent analysis based on the British Standard test used by the England and Wales Cricket Board. **Notts Sport**, a world leading supplier of non-turf cricket pitches, has long been confident that its hard-wearing tufted surfaces are a cut above outdated woven manufactured pitches. The premium NottsGrass NG12 carpet and its lower cost alternative NottsGrass NG7 were subjected to rigorous abrasion testing alongside a woven surface. The woven surface had a mass loss of 14.985 per cent of its original weight, nearly twice as much as was lost by both Notts Sport's NG12 surface (7.914 per cent) and NG7 (8.144 per cent).

SuDS at school



The trade association **Interpave** has published a case study exploring how a new, award-winning Kidderminster school takes an exemplary approach to sustainable drainage, with a SuDS scheme, incorporating concrete block permeable paving. Robert Bray Associates' SuDS and landscape scheme had to resolve complex drainage issues, including the absence of any 'safe' exceedance route from the site, as housing occupies the natural route. It utilises several SuDS techniques, including concrete block permeable paving, within a fully developed management train. This, and other case studies can be downloaded via the Interpave information resource on the Interpave website.

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