JIS EUROPE of Haywards Heath have an exciting range of heated towel rails under the banner of their Sussex Range. Named The ADUR, the towel rails are manufactured in an elegant round section shape with a gentle curve front displaying an appearance of refined luxury.

www.sussexrange.co.uk

Trahan Architects’ Louisiana Sports Hall of Fame and Northwest Louisiana History Museum project took a contemporary approach that combined bold and practical elements into an imaginative modern design.

www.crlaurence.co.uk

Interior Designers can now revitalise furniture, walls and doors by using Interior Film from David Clouting Ltd. Interior Film is a unique range of self-adhesive, decorative films manufactured by LG Hausys for use on a wide range of interior applications.

www.davidclouting.co.uk

Committed to exceptional design and quality, the Danish craftsman and designer Kjell Thomsen started to draw his first range of flueless bioethanol fireplaces in 2007. Today, Decoflame is the recognised trademark for eco-friendly, contemporary bioethanol fireplaces which add a stylish statement to any interior.

www.decoflame.com

Highly insulating Kalwall® has been used for one of the most unusual non-secular buildings ever constructed, the Canadian Our Lady of Hope Mausoleum in Ancaster, Ontario. The structure of this building is entirely concrete, clad in stone and zinc, with the interior mainly marble and limestone to contrast with its fenestration.

www.structura-uk.com/kalwall

If you would like to receive further information about any of the products and services featured in this issue, just email us at info@link2media.co.uk, type ‘atb214’ in the email title, include the enquiry numbers of interest and your contact details. We’ll do the rest! (If you prefer to fax the information, it’s 0845 862 8639, or you can even post it to us!)

reader enquiry e-service about atb

Taper-LOC® is the recognised trademark for eco-friendly, contemporary bioethanol fireplaces which add a stylish statement to any interior.

www.decoflame.com

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The market for the ubiquitous four – six panel internal door has been consistent over the years and was thought to remain so in the future – until now. With a collection of exciting new design variants launched by Premdor, the market is experiencing rapid change. Replacing the stock looks of the old four panel door, yet retaining the practicalities, is the refreshingly modern look of ladder moulded, vertical five panel, shallow single panel and horizontal four line doors.

Full story - page 18

www.premdor.co.uk
Balfour Beatty And A Sustainable Cure For Guy’s Hospital

Working at height surrounded by one of the busiest live hospitals in the UK was always going to be a challenge but Balfour Beatty’s £26 million refurbishment of Guy’s Hospital in Southwark remains on track and will transform the appearance of the 142m high building. Key to the design is the long term efficiency and sustainability of the building, whilst being flexible enough if requirements change in the future.

Built in 1974 and still the tallest hospital in Western Europe with two towers at 34 and 30 storeys, the concrete exterior of Guy’s Hospital was in need of a facelift having suffered from spalling which had exposed the steel reinforcement to further corrosion and its windows needed replacing. One option for client Guy’s and St Thomas’ NHS Foundation Trust was total demolition and rebuild but on a tight budget, the most feasible way to secure the future of the hospital for the next 30 years and improve its environmental performance was a full refurbishment of the external facades, including new replacement windows and energy efficient aluminium cladding.

The new look towers

In a design by architects Penoyre and Prasad and consultant Arup Façade Engineering, Balfour Beatty’s work involved re-cladding in its entirety the taller service tower, with a zig-zag profiled anodised aluminium system fixed to the existing concrete face and adopting a 50/50 approach to the main user tower which involved cleaning and repairing concrete on its suspended, precast concrete balconies and overcladding the failing double glazed windows. This new facade will not only modernise the aesthetics of the towers but also provide environmental benefits according to Arup, with a potential saving of 18% of the tower’s total energy consumption.

But this is by no stretch a simple refurbishment with a staggering 8,000m² of aluminium cladding panels installed in all elevations of the service tower and a further 5,300m² of glazing units being installed in all elevations of the user tower. The glazing will use solar selective glass in order to minimise solar gain and optimise orientation. In total 34,500m² of concrete is being cleaned and extensive concrete repairs carried out.

A high-performance thermal layer will also be applied to the outer face of the concrete columns behind the balustrades and will be separated from the existing structure by a shallow void to minimise thermal bridging.

“Repairing spalled concrete and installing new cladding systems directly to the structure was always going to be a challenge but when the work has to be carried out at height around a full functioning hospital without affecting staff, patients or the general public, it was particularly challenging,” commented John McCallion, Balfour Beatty Project Manager.

With access an issue, scaffolder Harsco had to create a 4 metre wide gantry around the building, nicknamed ‘the causeway’, which was supported on a series of steel gallows brackets at levels nine and eleven. From this point a number of mast climbers provided direct access to the building face which enabled concrete repairs and the cladding system to be installed.

“Repair work on the existing concrete included pulling 500 x 500 mm sections of concrete back to behind the existing reinforcement as far as 100 mm deep before being patch repaired,” added John McCallion.

The challenging external refurbishment is further complicated by the level of work required inside the live environment of the hospital where the various teams have to work around the staff and patients with minimal disruption. Fully sealed floor to ceiling barriers were required to separate work zones so that finishes to window ledges could be completed while all materials were fabricated away from any work zone to minimise noise.

With the building’s external makeover set for completion this winter, Balfour Beatty’s work on the hospital is testament to their continued commitment to delivering sustainable projects which have low environmental impact whilst at the same time reducing the building’s overall energy consumption and ensuring this landmark hospital is fit for the next 30 years. www.balfourbeattycsuk.com

Enquiry 2
Sapa Strengthens Offering With New London Office

One of Europe’s largest suppliers of aluminium building system solutions, Sapa Building System, has opened a new office in London’s prestigious Building Centre. A base in the capital will allow Sapa to host meetings with architects, specifiers and other key contacts to help support its growing business objectives. The Building Centre provides information and inspiration to all sectors of the built environment and acts as a central hub for the industry. For more information contact Sapa Building System on 01684 853500 or www.sapabuildingsystems.co.uk

Enquiry 5

Double Win For Bauder At National Roofing Awards 2014

Fast roofing specialist Bauder was recognised at this year’s National Federation of Roofing Contractors (NFRC) annual awards, winning two of the top prizes on offer for its work on Fulham Jetty and the Tintern Abbey Gift Shop. The award winners were announced on May 16th at the Hilton Metropole in London, an event co-hosted by TV Presenter and Interior Designer Linda Barker and NFRC Chief Executive Ray Horswood.

Now in its ninth year, the Roofing Awards are an industry-wide competition that celebrates outstanding standards of workmanship and safety within the roofing industry. This year the level of competition was higher than ever before with the NFRC receiving almost 350 project entries for the eleven award categories available. A wide range of criteria are taken into consideration by the judging panel when determining category winners including: degree of difficulty, aesthetics, problem-solving and environmental qualities. Bauder took home both awards for sustainable roofs at the ceremony winning the Green Roofs category for Fulham Jetty and the Solar category for Tintern Abbey Gift Shop.

The Fulham Jetty project involved the ecological enhancement of a 1,000m² abandoned jetty located on the River Thames in London. The roof of the new building swoops down to become a continuum with the deck and is covered with a green habitat to provide three distinct environments for wildlife, one on the flat roof, one on the slope and the third on the jetty deck.

Since its official opening to the public in October 2013, the lower wildlife roof has become a haven for nesting birds and the array of river-related habitats and native plant species have also attracted a variety of different birds and insects to the jetty.

Bauder’s photovoltaic (PV) system installation at Tintern Abbey led to the company’s second success of the night, having also been shortlisted in the same category for its work on the Awel-Y-Mor Primary School, a project that features Bauder’s bitumen, single ply, green roof and PV systems. Roof areas totaling 698m² were fitted with 576 staple-fit-the-art PV Modules on Tintern Abbey Gift Shop, enabling it to generate at least 14.05 Megawatt hours of solar power each year.

Due to the abbey’s historical significance it was important that the PV system did not create a distraction from the building itself, and the low profile of the photovoltaic modules, which are set at a 10° angle, made sure this was not an issue. The Bauder team worked closely with the client throughout the project ensuring the new roof complemented what is a site of great national importance to the Welsh community.

Bauder’s Managing Director, Andrew Mackenzie, expressed his delight with the company’s success at the prestigious awards ceremony. “Bauder is extremely proud to be recognised by the Roofing Awards for the hard work and high quality our team has produced on both the Tintern Abbey and Fulham Jetty projects. Both of these developments have made a substantial contribution to their local community and the environment, as well as illustrating the exceptional levels of workmanship our approved contractors deliver, which in this instance were J Randell Roofing Contractors and Accurate Roofing.”

www.bauder.co.uk

Enquiry 7

Enquiry 4

Cold applied liquid waterproofing specialist, Kemper System, is to build on its continued success in the flat roofing market with the appointment of David Hinton to the new role of specifier liaison manager. Well known in the roofing sector following a 30-year career, David was an early pioneer of Kemper System’s Kemperol waterproofing membrane products as sales manager for Geoflex. A fellow of the Institute of Roofing with an HND in Building and Construction, David’s track record ensures that he not only understands the competitive landscape for waterproofing systems but also the challenges facing contractors and specifiers alike. www.kemper-system.co.uk

Enquiry 3

Call for Brick Awards 2014

Once again, the search is underway to find the best brickwork in action for the 2014 Brick Awards, organised by the Brick Development Association. The Awards are one of the top design and construction awards in the country and show just what brick – the UK’s most popular cladding material – can achieve. Last year’s winners included the Ithaca, a learning facility in London, Cartmelite Monastery in Liverpool and the Britten – Pears Archive in Suffolk.

Entrants are judged on a wide range of architectural design factors including demonstrating the building fabric’s sustainability credentials and the aesthetical choice, blend and bond of brick. The judges are also seeking attention to structural and aesthetical brick detailing, the buildings contribution to its context and quality of craftsmanship.

The Awards are open to anyone, whether they are architects/designers, building owners, developers, housebuilders, contractors or brick manufacturers. The only stipulation is that the project – unless new build – must be constructed with brick. The Green Roof Awards and the Solar Awards are open to all brickwork entries.

The Awards are open for entries from May 2014 and the winners will be announced on November 3rd at the Marriott Grosvenor Square Hotel in London. Further information about the categories is available on the BDA website, www.brick.org.uk

Enquiry 6

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Enquiry 2

STYROFOAM Manufacturer Offers Part L 2013 Summary

STYROFOAM manufacturer Dow Building Solutions has released a novel, independent publication summarising key changes to Part L of the Building Regulations, which come into force from April 6 2014. Authored by New Elms of JPA Technical Literature Ltd, the paper describes key changes to Part L of the Building Regulations introduced in England in 2010 and 2013, made as part of the internal revision cycle. The changes – whilst more limited in scope than changes made in 2010 – are a further step towards the Government’s long-term commitment to reduce carbon dioxide emissions to 80% below 1990 levels by 2050. The guide summarises how the revisions will affect both the new build and refurbishment sectors. www.styrofoam.co.uk

Enquiry 1

Hinton ‘Comes Home’ To Kemper To Drive Specifier Relationships

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Panasonic International Award Scheme Celebrating Industry Excellence

Panasonic, one of the market leading brands in the heating and cooling sector, is encouraging its customers to enter into the inaugural Panasonic Pro Awards. The new initiative aims to celebrate excellence in the design, specification, installation and commissioning of Panasonic heating and cooling systems.

With just over one month until the deadline (31st July), it’s time to start compiling entry forms and taking photographs of your flagship Panasonic installations. Panasonic is inviting entries from Architects, Consultants, Distributors, Estates and Installers whose projects demonstrate flair and innovation, and showcase sustainable design, efficiency, cost effectiveness and aesthetics.

Projects from across Europe are eligible and must have been completed between 1 January 2012 and 31 July 2014. Each project can only be entered into one category. Entries will be judged by a prestigous panel of international judges with expertise in Architecture, Building Services and the Heating/Cooling industry.

Jose Alves, Head of Marketing Heating and Cooling Systems PAMPRO explains, “Our aim is to showcase the very best in the industry and we are excited to see this year’s projects. We are delighted with the amount of entries which we have already received but are keen to see more companies take part.”

The awards are open to projects featuring air conditioning, heating and/or cooling systems that have been completed primarily using Panasonic Heating and Cooling systems, in a residential, a public authority or commercial environment.

Award entries are invited in the following categories:

- Best Residential Project (single dwelling)
- Best Residential Project (multi-dwelling)
- Best Residential Project (social housing)
- Best Commercial Air Conditioning Project
- Best Hotel Installation
- Best Retail Project
- Best Restaurant Project

The entries will be judged by an international judging panel that will utilise their expertise in Architecture, Building Services and the Heating/Cooling industry to decide which projects demonstrate the most flair and innovation, as well as showcasing sustainable design, efficiency, cost effectiveness and aesthetics.

> Panasonic International Award Scheme Celebrating Industry Excellence (cont.)

Enquiry 9

Fila Provides Multiple Benefits With Award-Winning Green Line

Fila’s Green Line provides the ideal surface care solution, for high performance, personal safety and the environment. The extensive range which recently received The Tile Association’s ‘Best use of tile in a commercial contract’ 2014 Award, includes 17 surface care products, suitable for a range of natural surfaces and procedures. All products are solvent free and have a very low concentration of VOC’s or are VOC-free. Fila’s Green Line is part of Fila’s Green Action brand.

Projects span from pre-grouting protectors and surface cleaners, to protection and stain removal solutions. Recent introductions to the range include LED-approved stain-proofing protector – FILLAMPD ECO PLUS, which is developed for use on unpolished natural stone; its water-based formula cuts application time by up to 80% and it is also low-GV/UNIQUE ECLPLUS certified and suitable for use on food contact areas.

Recent Fila Green Line applications include The Library of Birmingham, where stone was protected and maintained with stain-proofing FILAMPD6 and FILA Cleaner. The latest Fila project also received The Tile Association’s ‘Best use of tile in a commercial contract’ 2014 Award; flooring was installed and treated by W B Simpson & Sons (MIDLANDS) Ltd.

Enquiry 10

David Miller Architects Pre-Empts Email Overload Problems With Mail Manager

BDM leader David Miller Architects has pre-empted the threat of email overload by installing Outlook plug-in Days Mail Manager. The software tool is the perfect complement to the collaborative work processes that have underpinned the practice’s creative and commercial success.

Email has always been seen as an integral part of the BDM collaborative process at David Miller, and in the past it was shared within the practice using drag and drop Outlook project folders. However, as the number of concurrent live projects grew, the time taken to file and retrieve emails came onto the radar as a potential future problem. At that time, a new member of the team who had used Days Mail Manager before, and missed it sorely, introduced the concept.

Practice Director Fiona Clark said: “Mail Manager was a perfect fit, but seemed almost too good to be true. However, as it had been developed for Arup, a firm we know and trust, we had complete confidence in it.”

Mail Manager automates email filing into system file folders and, because it learns user behaviour, filing emails and their attachments quickly becomes a prompted one-click operation. Emails are filed instantly in a place where they can be securely shared. “There is no time lag while people might get distracted by a phone call, meeting, or even wait until the end of the day,” said Fiona.

Filing errors are virtually eliminated, and will only occur if the user makes an error. However, even then, the amazing faceted search capabilities will enable team members to find messages in seconds... or less.

“Good storage and retrieval is the platform on which automation and collaboration is based,” said Fiona Clark. “We now have complete confidence in our real storage and our ability to retrieve it.”

All Days software is available for 30 days. Visit www.days-software.com to download.

Enquiry 8

The Tile Association’s ‘Best use of tile in a commercial contract’ 2014 Award; proofing FILAW68 and FILA Cleaner. The iconic Fila project also received The Tile Association’s ‘Best Environmental Initiative’ 2014 Award - Fila Provides Multiple Benefits With Award-Winning Green Line

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Enquiry 9

David Frnka, Chief Executive of the Association of Interior Specialists (AIS), will be the UK judge. David was an M&E contractor for 25 years before branching out into renewable energy systems, firstly as an installer then as head of sustainability at the Building & Engineering Services Association (B&ES). David is currently Chief Executive of the Association of Interior Specialists (AIS).

The AIS is a trade association that represents companies involved in the manufacture, supply and installation of all aspects of interior fit-outs and refurbishments. Members are throughout the supply chain including main interior contractors, specialist fit-out contractors, manufacturers and distributors. He is also a trustee of SummarySkills (the building services engineering Sector Skills Council) and a non-executive director of the National Skills Academy for Environmental Technologies.

The winner of each of the 7 categories in the Panasonic PRO Awards will receive a once in a lifetime trip to Japan for two people. The unique prize includes a visit to the Panasonic global Head Quarters and to the ground-breaking Fujisawa Sustainable Smart Town – a model for an environmentally-minded urban area. Located 37 miles from Tokyo with about 400,000 residents, the smart town within-a-city is built on the vacant lot of a former Panasonic factory and its infrastructure and services — from IT to energy — is driven by sustainable sources. It will support 1,000 households and is set to open in March 2014 and will be completed in 2018, the year of Panasonic’s 100th anniversary. The development will demonstrate energy efficiency measures such as solar power generation and battery storage systems — and will showcase the synergies between cutting-edge technology and a ‘green’ way of living, making it a fascinating and unique place to visit.

Other prizes include Panasonic Luma Cameras, which will be awarded to qualifying entrants. The Panasonic LUMIX GX is a camera for the sophisticated photographer — one of classic design, engineered for quality in both form and function, with high-performance features and a high-grade chassis. The result is an elegant, easy-to-use interchangeable lens camera delivering high-class images.

For further information, FAQ, full details of all the entry criteria and to register, go to www.aircon.panasonic.eu
If the Surface Temperature Factor (fRSi) is Controlled Incorrectly, Thermal Bridging Is Likely To Result In Condensation And Mould Growth Problems

www.schoeck.co.uk

It is a critical calculation, as the consequences of condensation and mould growth are likely to be more serious for building occupants than any local heat loss. If low internal surface temperatures in the area of a thermal bridge are below the dew point of the air, condensation is almost certain to form. This in turn is likely to result in structural integrity problems with absorbent materials such as insulation products or plasterboard – and of even greater concern, the occurrence of mould growth. Practically every building contains mould spores within its fabric which are dormant and completely harmless. However, given the right conditions these spores will germinate and become a potential health risk to occupants in the form of asthma and allergies. Mould is not a new phenomenon of course, but a combination of circumstances is elevating interest in the problem. Primarily these are better insulated and more airtight buildings, improved energy efficiency requirements and much greater environmental awareness. Mould starts to form when the relative air humidity reaches 80%, and often before there is evidence of any condensation.

The actual surface temperature will depend greatly on the temperatures both inside and out at the time of the survey, the surface temperature factor (fRSi) has crucially been formulated to work independently of the absolute conditions. Using the formula, the recommended (fRSi) value for offices and retail premises is equal to or greater than 0.5; and to ensure higher standards of comfort for occupants in residential buildings, equal to or greater than 0.75. In more extreme conditions of high humidity, such as swimming pools or other wet areas, 0.9 would be anticipated. In summary, the surface temperature factor required will depend on the use of the building and the consequent internal relative humidity. To eliminate the possibility of condensation and any resultant mould growth, the higher the likely internal humidity, the greater the need for a higher surface temperature factor.

The actual formula as it relates to internal surveys is that fRSi = (Tsi – Te) / (Ti – Te); where Tsi = the internal surface temperature; Ti = the internal air temperature; and Te = the external air temperature.

Chris Willett, MD at Schöck Ltd, considers the issues involved.

To identify areas where there is a risk of condensation and therefore mould growth in different design situations, a ‘surface temperature factor’ (fRSi) can be used. It allows surveys under any thermal conditions and compares the temperature drop across the building fabric, with the total temperature drop between the inside and outside air. The ratio is described in BRE IP1/06; a document cited in Building Regulations Approved Documents Part L1 and L2 and Section 6 in Scotland.

www.envirograf.com

The Envirograf® collars are a surface-mounted circular metal unit for use around pipes (PVC, UPVC, steel, and copper) and electrical cables that pass through fire-rated ceilings or walls. The unit consists of a collar that contains intumescent material. It has a quick-release clip to open the unit for fitting around a pipe or cable, and fixing lugs are fitted for easy attachment to ceilings, floors, or walls. The collar can be reversed, to fit into the floor or wall and an Acoustic version is available. These units are made in various sizes protecting pipes from 45mm external diameter (or narrower), right up to 700mm, special sizes can be made to order.

www.envirograf.com

Tested to BS EN 1366-3 : 2009, using the Hydrocarbon Heating Conditions of BS EN 1363-2, Clause 4

The Envirograf® Passive Fire Protection Products

Pictures from recent Exova test carried out for EDF Energy Nuclear Power Station - achieved 245 minutes Integrity and Insulation

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If the surface temperature factor (fRSi) is controlled incorrectly, thermal bridging is likely to result in condensation and mould growth problems. Chris Willett, MD at Schöck Ltd, considers the issues involved.

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SUSTAINABILITY IN VENTILATION: WHY IT MATTERS AND HOW TO ACHIEVE IT

www.polypipe.com/ventilation

Ventilation at its most basic level can be as simple as opening a window to let the stale air out and the fresh air back in; however, the opportunities for opening windows in the UK are limited by weather conditions, heat loss and security. Up until quite recently, dwellings were designed to include only the most basic ventilation products, ranging from air bricks to window trickle vents and more latterly, simple extract systems. Unfortunately for just a long, properties have also suffered from the effects of condensation caused by inadequate means of ventilation.

Recent developments in the design and build of domestic properties have led to properties being unable to meet current Building Regulations which specify a minimum level of heat loss and air leakage in all new builds. Therefore, the need for good ventilation has become critical.

The ducting must have exacting tolerances, i.e. a good fit of rigid extruded polystyrene (EPS) systems, such as Domus rigid duct. If the duct bows, or looks concave, or the wall thickness appears uneven, the tolerances will be too wide. If the duct doesn’t retain its shape, it can be difficult to fit to together and result in air or condensate loss. Always opt for a duct system which has all the accessories you need to create the ventilation system as a whole and that has been designed to work in harmony as part of a system and finally, third party tested for end-to-end system performance.

Alternatively, you might want to consider semi-rigid duct systems, such as the Domus Round duct system, as an alternative to traditional ducting, especially for whole-house ventilation where space can be an issue. Traditional duct systems are based upon a branch design, with duct to rooms running off a main trunk connected to a Mechanical Extract Ventilation (MEV) or Mechanical Ventilation with Heat Recovery (MVHR) unit. A Round system works differently in that each room vent is served by bare or simple Ø75mm semi-rigid duct which connects to a distribution manifold, therefore preventing a room even air flow. The manifold(s) is then connected to the mechanical appliance. For MEV and MVHR applications, the system benefits from less air leakage and improved air flow and a greater degree of room to room air separation.

It is vital to insulate ducting in colder areas such as left spaces, to remove the possibility of condensation forming and to maintain thermal efficiency. As recommended by the NHBC, insulating duct in warm spaces with a solution

Which now brings me on nicely to MVHR systems; MVHR systems work on the principle of extracting and re-using heat, such as that found in a bathroom or kitchen. MVHR systems efficiently pre-warm and filter fresh air drawn into the building with waste stale air using a heat exchanger; more than 95% of heat can be recovered by this mechanism. The filtered, pre-warmed air is then distributed around the home.

According to the Zero Carbon Hub, in 2012 more than 24,000 MVHR units were installed in the UK and it seems that this is an increasing trend that will continue. There are many MVHR systems available today, but as with most things they vary in quality and effectiveness. The good news is that the best performing models are easy to identify by their heat exchange performance and Specific Fan Power, which are listed on the Product Characteristics Database (PCDB). Polyplumb’s Silavent Green Line HRX2 currently tops the list with a heat exchange efficiency of up to 95%.

A simple way to select an MVHR unit for maximum sustainability is the incorporation of a common bypass facility which helps prevent homes from overheating during the warmer months and the type of fans used in the system. To comply with Building Regulations, specifying an MVHR or MVHR unit with a low Specific Fan Power (SFP) – no higher than 1.5 Watts per litre per second (W/l/s) for MVHR or ≤ 0.7 W/(l/s) for MVHR – is very important. A low SFP results in minimal energy usage and maximised air flow performance.

Bathroom and kitchen fans also play a key role in most aspects of domestic ventilation, so they are tested, certified, wall or window mountable, or in-line versions. The SFP requirement for fans is set by Building Regulations but there are other considerations to take into account when looking for energy savings. One of these, and often overlooked, is the fan’s energy consumption when in standby mode.

Domestic fans containing electronic controls, such as an overrun timer, can use anywhere between an extra 50-200% of the overall power used, when in standby. This actually means that despite a very low SFP, some fans will actually use more energy in standby mode over time. For example, a 6 Watt low energy fan running for a total of one hour per day consumes about 20kWh per year, annually, on standby for the remainder of the day it uses a further 10kWh; therefore increasing the fan’s carbon footprint. Our new Silavent Green Line range of 100mm axial fans have been designed to use up to a 70% lower energy in standby mode than other low energy fans which, when combined with an SFP of 0.22 W/l/s, makes them the most energy efficient range of axial fans available.

But it’s not just equipment that makes a ventilation system sustainable. If you have gone to the trouble of identifying the most energy efficient and highest quality ventilation equipment, you must also ensure it is correctly installed.

Well engineered and designed ventilation duct systems maximise airflow, reduce air leakage and achieve greater system performance – vital in whole house ventilation systems. However, poor quality ventilation installations are in abundance; with grilles missing, duct sections not being sealed at joints, inappropriate use of low cost flexible duct, where rigid ducting should be used; and too many sharp bends in the system leading to air flow due. Once such widespread poor installation practice which affects system efficiency, must notably the SFP – heavy penalties are applied to SAP calculations, the official method used to calculate the energy consumption in dwellings.

Changes to Building Regulations Part F, Ventilation, directly addressed this by requiring a ‘specified’ installer to commission new ventilation systems and submit a commissioning report to the Building Control Body (BCB). The Department of Energy & Climate Change (DECC) has also recently stated that it will reduce SAP penalties if the systems are installed by a member of a registered Competent Persons Scheme. Commissions must be completed and submitted to Building Control. A check box in the SAP 2016 programme needs to be completed to enable improvement to the overall energy rating.

However, existing training schemes have made limited progress according to the Zero Carbon Trust Ventilation and Indoor Air Quality (IAQ) Task Group and members are calling on the Department of Communities and Local Government to consider mandatory competency requirements for MVHR installations so that standards can be improved.

Working closely with the VIAQ Task Group, the NHBC has introduced a new chapter in their 2014 specification document, dedicated entirely to MVHR and whole house ventilation systems.

With all new homes expecting to reach zero carbon from 2016, which requires six points under the Code for Sustainable Homes and most new homes coming in at just three points, developers and builders are in a considerable catch 24,000 MVHR units were installed in the UK and it seems that this is an increasing trend that will continue. There are many MVHR systems available today, but as with most things they vary in quality and effectiveness. The good news is that the best performing models are easy to identify by their heat exchange performance and Specific Fan Power, which are listed on the Product Characteristics Database (PCDB). Polyplumb’s Silavent Green Line HRX2 currently tops the list with a heat exchange efficiency of up to 95%.

A simple way to select an MVHR unit for maximum sustainability is the incorporation of a common bypass facility which helps prevent homes from overheating during the warmer months and the type of fans used in the system. To comply with Building Regulations, specifying an MVHR or MVHR unit with a low Specific Fan Power (SFP) – no higher than 1.5 Watts per litre per second (W/l/s) for MVHR or ≤ 0.7 W/(l/s) for MVHR – is very important. A low SFP results in minimal energy usage and maximised air flow performance.

Bathroom and kitchen fans also play a key role in most aspects of domestic ventilation, so they are tested, certified, wall or window mountable, or in-line versions. The SFP requirement for fans is set by Building Regulations but there are other considerations to take into account when looking for energy savings. One of these, and often overlooked, is the fan’s energy consumption when in standby mode.

Domestic fans containing electronic controls, such as an overrun timer, can use anywhere between an extra 50-200% of the overall power used, when in standby. This actually means that despite a very low SFP, some fans will actually use more energy in standby mode over time. For example, a 6 Watt low energy fan running for a total of one hour per day consumes about 20kWh per year, annually, on standby for the remainder of the day it uses a further 10kWh; therefore increasing the fan’s carbon footprint. Our new Silavent Green Line range of 100mm axial fans have been designed to use up to a 70% lower energy in standby mode than other low energy fans which, when combined with an SFP of 0.22 W/l/s, makes them the most energy efficient range of axial fans available.

But it’s not just equipment that makes a ventilation system sustainable. If you have gone to the trouble of identifying the most energy efficient and highest quality ventilation equipment, you must also ensure it is correctly installed.

Well engineered and designed ventilation duct systems maximise airflow, reduce air leakage and achieve greater system performance – vital in whole house ventilation systems. However, poor quality ventilation installations are in abundance; with grilles missing, duct sections not being sealed at joints, inappropriate use of low cost flexible duct, where rigid ducting should be used; and too many sharp bends in the system leading to air flow due. Once such widespread poor installation practice which affects system efficiency, must notably the SFP – heavy penalties are applied to SAP calculations, the official method used to calculate the energy consumption in dwellings.

Changes to Building Regulations Part F, Ventilation, directly addressed this by requiring a ‘specified’ installer to commission new ventilation systems and submit a commissioning report to the Building Control Body (BCB). The Department of Energy & Climate Change (DECC) has also recently stated that it will reduce SAP penalties if the systems are installed by a member of a registered Competent Persons Scheme. Commissions must be completed and submitted to Building Control. A check box in the SAP 2016 programme needs to be completed to enable improvement to the overall energy rating.

However, existing training schemes have made limited progress according to the Zero Carbon Trust Ventilation and Indoor Air Quality (IAQ) Task Group and members are calling on the Department of Communities and Local Government to consider mandatory competency requirements for MVHR installations so that standards can be improved.

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which includes an integral vapour barrier in certain applications is also equally important. Unfortunately some existing ducting products are unable to meet current Building Regulations which specify a minimum standard even when the system is correctly installed. In order to do it’s essential to use an insulation system such as patent Accepted Domes, Thermal, which is an engineered interlocking EPS (expanded polypropylene) system which exceeds the equivalent requirement at just 20mm thickness. The chosen insulation system must fit snugly around the duct and 1312
buildings that would benefit from HE condensing water heater technology, as new build is far outweighed by the number of carbon-producing older existing building stock unaffected, where water heating is concerned. “Although it is welcome to finally have this legislation in place, albeit a cut £200 from the fuel bills of a typical new build home and could save large with 6.4 million tonnes of CO2 saved per annum. According to the Department The changes are projected to give £16 million savings per annum to business and must increase, or both.”* Considering the existing commercial building stock is responsible for 40% of existing buildings. If overall reductions in carbon dioxide emissions are to be made, either the rate of improvement or the rate of replacement of existing buildings must increase, or both.**

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“Currently the carbon dioxide emissions associated with energy use in new buildings largely cannot cut the reductions obtained by improvement of existing buildings. If overall reductions in carbon dioxide emissions are to be made, either the rate of improvement or the rate of replacement of existing buildings must increase, or both.”**

The change to achieve a 9% carbon dioxide improvement on 2010 standards when aggregated across the complete build mix. Within the change minimum efficiencies within the existing commercial building stock are set to be increased for air conditioning and lighting – but water heating will stay at 2010 thermal efficiency levels. The changes are projected to give £18 million savings per annum to businesses with 4.4 million tonnes of CO2 saved per annum. According to the Department for Communities and Local Government (DCLG) the new energy standards will cut £200 from the fuel bills of a typical new build home and could save larger businesses more than £600 when compared to pre-2010 building standards. “Although it is welcome to finally have this legislation in place, albeit a cut £200 from the fuel bills of a typical new build home and could save large businesses more than £600 when compared to pre-2010 building standards. "Current carbon dioxide emissions associated with energy use in new buildings largely cut the reductions obtained by improvement of existing buildings. If overall reductions in carbon dioxide emissions are to be made, either the rate of improvement or the rate of replacement of existing buildings must increase, or both.”**

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WRIGHTSTYLE AND FIRE COMPARTMENTATION

www.wrightstyle.co.uk

Wrightstyle is a specialist steel and aluminium glazing company and supplies its fire-rated systems internationally. Jane Embury, the company’s marketing director, looks at fire compartmentation.

First, some statistics:

There were 150 fire deaths in England between April and September last year, a 33% reduction on the same period ten years ago.

Bridgewater House, Bristol

In 1992, there was a UK reduction in reported fires of 30.5% between 1979 and 2007, although the cost of fire remains high. The Association of British Insurers estimated that in the first half of 2009, insurers paid out £313 million for fire damage - £2.5 million a day.

On a worldwide scale, international fire statistics are collated by the World Fire Statistics Centre (WFSC), which estimates that costs due to fire add up to approximately 1% of global GDP – that’s £1.22 trillion in Europe alone. In the industrialised world, fire deaths per 100,000 of population range from 0.02 in Singapore to 2.03 in Finland. The UK stands at 0.75.

Beirut souks

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Bastid souls

In other words, fire remains a potent threat, despite advances in building design and construction and the enforcement of strict building regulations. Essentially, fire safety in commercial buildings is down to three things: an alarm system to detect the danger, a sprinkler system to damp down the fire, and fireproof compartments to contain the fire at source and prevent it spreading.

Whatever the building, compartmentation is fundamental to its safety, creating a series of protected fire zones to ensure that the fire is contained. For the glazed elements, the UK Glass and Glazing Federation has a specific guide on fire-resistant glazing.

Fire is spread through three methods: convection, conduction and radiation, of which convection is the most dangerous. This is when smoke from the fire becomes trapped by the roof, spreading in all directions to form a deepening layer. Smolder, rather than fire, is often the real danger.

Materials such as metal can absorb heat and transmit it to other rooms by conduction, where it can cause new fires to break out. Radiation transfers heat in the air, until it too sets off secondary fires, spreading the danger away from its original location.

Modern glazing systems can provide complete protection against convection, conduction and radiation – whether as curtain walling, or internal doors or fire screens – for up to two hours, giving more than enough time for a safe evacuation.

London Orbital fire doors

In a fire, the glass and its frame have to function together to prevent the spread of fire, smoke or toxic gases. If one fails, both fail, with potentially catastrophic consequences.

At Wrightstyle, we’ve invested in fire certification in the UK, USA and Far East – a reflection of our global business, and our confidence in our systems’ performance. We can also handle each step – from designing bespoke solutions, to fabrication and installation: an end-to-end service with comprehensive guarantees at each stage.

We can’t prevent fire from happening. But we can prevent it from spreading, and that’s just as important.

Author: Jane Embury, Marketing Director, Wrightstyle

BRICK INDUSTRY SUPPORTS HELP TO BUY

www.brick.org.uk

The Brick Industry is very supportive of the Governments Help to Buy initiative. The Industry is conscious that Help to Buy has reinforced the confidence which underpins the market. As we recover from recession, we look forward to steady growth in the housing sector which is in response to demand including changes in population and household composition. Modern housing with brick facades are energy efficient, attractive and durable. A brick house would be expected to last well over 100 years.

The house building sector has helped the UK economy in recovering from recession and the initial pump priming emphasis has come from the Help to Buy initiative which has been both effective and timely. There is a massive pent up demand for homes supported by potential purchasers who may well be paying more for rents than repaying a mortgage. The majority of Help to Buy mortgages have been to first time buyers, increasing the demand for new homes. However, in the south east and London, the high house price inflation has been caused by shortage of supply. We have to realise house building is at a historic low. In 2013 121,000 houses were completed and steady growth which is both sustainable and predictable. The Brick Industry has responded to the improved market conditions by increasing shifts and shortening maintenance shut-downs and has already begun reactivating mothballed plants to cater for rising demand. The majority of brick factories were manufacturing bricks through the Christmas period for the first time in 5 years. Many brick factories are essential local employers often in rural locations of otherwise high unemployment. The steadily improving figures for house building have enabled production to be increased because of steadily rising demand benefiting the local communities.

The Brick Industry considers that Help to Buy has been a key constituent in rising confidence, and is fully supportive of Government Initiatives to improve the supply of much needed housing towards more normal levels. An increased level of house building is also the best price control method as a greater number of houses built will inevitably lead to house price stability.

The Brick Industry has shown that a relatively small but decisive initiative has benefited the economy and the potential homeowners market.

We look forward to the development and refinement of this policy.

Author: Brick Development Association

Taken together, those active and passive elements are designed to allow occupants to escape from the building, and provide safe access for the fire and rescue services. These three elements are applied depends on the size of the building, its complexity and its function.

For example, an evacuation plan for a hospital or care home will be different to that of an office block, and require a different building safety approach.

In other words, building safety also addresses the resiliency, or otherwise, of its likely occupants.

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Adur Towel Rails From JIS Europe

JIS EUROPE of Haywards Heath have an exciting range of heated towel rails under the banner of their Sussex Range. Named The Adur, these towel rails are manufactured in an elegant round section shape with a gentle curve front displaying an appearance of refined luxury. The rails are manufactured in three sizes: 1250mm high x 400mm, 520mm and 620mm wide. They can be used in central heating, electric or dual fuel formats. The Adur towel rails come with 20 horizontal rails offering a large towel hanging facility.

The Adur towel rails are manufactured 100% stainless steel and are available in brushed satin, polished finish making these towel rails durable and hygienic. They also come with a 25 year guarantee.

JIS EUROPE, one of the leading suppliers of these towel rails durable and hygienic. They also come with a 25 year guarantee.

 ATIEN A FRESH LOOK AT PANELLED DOORS WITH PREMDOR

The market for the ubiquitous four – six panel internal door has been consistent over the years and was thought to remain so in the future – until now. The advantages and practicalities that come from a moulded door are visible irrespective of the decorative environment.

Now with a collection of exciting new design variants launched by Prender, the market is experiencing rapid change. Replacing the stand still look of the old four panel door, yet retaining the practicalities, is the refreshingly modern look of moulded, vertical five panel, shallow single panel and horizontal four line doors, all of which have met with instant enthusiasm from Merchants, Distributors and House Developers alike.

Exclusive to Prender, the shallow moulded door design presents a pleasing modern twist to a traditional panel door and is finished with smooth surfaces for a point finish. Additionally the vertical five panel door with its versatile good looks is rapidly becoming one of the UK’s best sellers, again, suitable for painting.

Another first from the Prender design team is the single panel shallow moulded door with understated good looks, ideal for minimalist interiors. Likewise, with a sleek modern profile, the four line door with smooth embossed lines lends itself to a bold decorative finish. The new panelled door range from Prender, a clear statement of style and modernity.

For full details call 0844 2090008 or visit www.prender.co.uk

Accessibility Bathroom Features Purpose-Made HEWI Solutions

In the coming decade, every second person will be more than 50 years old, and by 2050, ten per cent of the population will be over 80 years, as average life expectancy increases. This ageing population will create a need for housing interiors that are comfortable, convenient and accessible to those with mobility issues, who are keen to live as long as possible in their own homes. Foreshadowing this demographic trend and representation of today’s retirement hot spots, Ray and Joan Dabnor are both in their eighties and live in their own three-bedroom house in Whitstable, Kent.

Joan has severe mobility problems, following an earlier heart operation and a subsequent trip and fall, so the couple recently decided to upgrade their main bathroom for enhanced accessibility, on the advice of the hospital. The work was carried out by kitchen and bathroom makeover specialists, Granite Transformations, and features polished accessibility products from innovative system provider HEWI.

The bathroom upgrade entailed ripping out the existing bath, wc, basin and interior divides and creating a virtual wetroom with walk-in shower, lined throughout with granite mosaic. HEWI supplied its convenient hinged shower seat, foldable support rails, chrome shower shelf and a complete selection of matched accessories. Completing the shower fittings is a neat chrome and white shower shelf. HEWI also supplied a series of matched accessories including a toilet seat, toilet brush tumbler and holder, toilet brush set and paper holder, all featuring the same award-winning minimalist design.

This successful collaboration between suppliers, the compatibility of designs and materials and the ease of installation of HEWI mobility solutions, also presages Granite Transformations’ upcoming ‘Bathroom Studio’ initiative, whereby selected showrooms will take on complete bathroom fit-outs, using HEWI products and branded sanitary ware. To check out the nearest Granite Transformations showroom, visit the website at www.granitetransformations.co.uk or call 0800 044 5393.

The result is a magical transformation that has left the Dabnors delighted and means subsequent trip and fall, so the couple recently decided to upgrade their main bathroom for enhanced accessibility, on the advice of the hospital. The work was carried out by kitchen and bathroom makeover specialists, Granite Transformations, and features polished accessibility products from innovative system provider HEWI.

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The result is a magical transformation that has left the Dabnors delighted and means they will not need to relocate to purpose-equipped premises, maintaining their independence.

The relatively compact 1800mm x 1670mm bathroom is lined throughout with Granite Transformations’ scratch, heat, impact, chemical and water resistant quartz wall coverings and floor tiles, for an elegant off-white, super clean finish. Trend Italian heritage 2cm square glass mosaic tiles are laid in the shower area, bordered by clear glass panels, with no protruding lip to provide tripping. In the shower, there is a pair of HEWI bioped chrome support rails, 500mm in length and perforated for optimum grip. Latched into a permanently installed wall plate, these can be folded aside or if necessary removed completely, with a matching cover concealng the plate.

There is also a hinged shower seat made from glass-fibre reinforced white polymere, which can carry a load of up to 150kg, then be folded up to save space or again removed entirely, an innovative fastening system that is not only attractive but practical, whilst it is in use.

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Decoflame® Bioethanol Fires - No Chimney – No Smoke – No Mess

Committed to exceptional design and quality, the Danish craftsman and designer Kjell Thomsen started to draw his first range of flueless bioethanol fireplaces in 2007.

Today, Decoflame is the recognised trademark for eco-friendly, contemporary bioethanol fireplaces which add a style statement to any interior.

The exclusive range of decoflame® bioethanol fireplaces has been designed for the discerning customer who values the outstanding quality and functionality of Danish Design and Craftsmanship and the benefits of an environmentally friendly product. Designed and produced in Denmark with focus on quality, functionality and safety, a decoflame® bioethanol fireplace can be positioned literally anywhere - without the need for a chimney, flue or bearing wall.

With the introduction of patented cutting-edge CEVB Technology (Controlled Ethanol Vapour Burning) in spring 2012, the decoflame e-Ribbon Fire revolutionised the market for bioethanol fires. In close cooperation with architects and interior designers on an international scale, Decoflame has realised a significant number of made to measure installations in restaurants, hotels, offices, homes and palaces worldwide. www.decoflame.com

Enquiry 16

Introducing Trackit, A New Suspension System From The Shopkit Group

Trackit, an extremely versatile track suspension system providing mobility and flexibility to the presentation of banners and graphics, sliding panels/room dividers, shelving and clothing displays.

Trackit can facilitate different types of elements to be hung at different heights along straight or curved sections of track and repositioned easily and in proving to be a popular display solution for Receptions, Galleries, Retail interiors, Window displays, Home, Hotels and the rest of the Leisure industry. Trackit can be wall or ceiling fixed and is available with a choice of single, twin or triple tracks, enabling the design of multi-track installations, giving displays the potential for depth and innovation.

This system offers static and mobile suspension options, via a roller wheel, which allows for easy re-positioning of complex displays and shelving as well as large panels and room dividers etc, by simply sliding the roller wheels along the track. The suspension track is available in both aluminium and stainless steel and there are six different support methods that can be hung from the track, each with a vast array of accessories and Shopkit can help determine which is most suitable for each application.

Made to Measure and Installation options available

The dimensions and material finishes of the different suspension systems and accessories can be varied to suit clients’ requirements and Shopkit can deliver and install all elements within this range – quotations will be supplied on request.

www.shopkit.com

Enquiry 17

Minimalist Drainage Channels Offer Elegance For Level Access Shower Spaces

Architects and interior designers as well as specialist wet room installers are amongst the professionals who will find the technical attributes of Dallmer’s CeraWall drainage profiles an immense asset in creating level access shower areas which are both attractive and totally watertight.

A 16 page A4 brochure illustrates the key benefits to the CeraWall P and CeraWall S drainage units which have, as the name suggests, been meticulously detailed to offer an unobtrusive means of removing water at the floor/wall junction.

CeraWall S sustains the wall finish with a beautifully engineered metal profile that drains the water to a central slot and is available in lengths of 800, 900, 1000, 1100 and 1200 mm, whilst offering flow rates of 0.4 or 0.8 litres per second. Practically invisible when viewed from above, CeraWall P creates a seamless joint between floor and wall, while being offered in the same sizes and flow rates according to the concealed body specified, with the water being virtually conducted away to a hidden drain outlet.

CeraWall S and CeraWall P have been engineered to simplify their integration with the tiling of the wet room space and the installation of the ceramic tiling or other materials. With their polymer concrete collar and integral mesh reinforcing, the CeraWall units offer optimum stability and long term durability to ensure the completed installation retains its appearance for the life of the fit-out. www.dallmer.com

Enquiry 15
Acoustical Flower Power

Børnekulturhus Anxøe’s in Amager, Denmark, is an interesting building which encourages children’s play and discovery by offering them daily workshops and events. The result is a complex of interesting shapes and spaces where nothing is quite what it seems. For example, one room adjacent to a normal classroom has a flower meadow printed on its Troldtekt acoustic panel ceiling. These wood wool panels have been installed throughout the rooms not only to enhance their interconnections but also to provide essential dampening of sounds, echoes and bustling children’s activity. Made from 100% natural wood fibres, the benefits of Troldtekt panels include high sound absorption, high durability, natural breathability, low cost life cycle performance and sustainability. www.troldtekt.co.uk

THE STYLISH ANSTY FROM JIS EUROPE

JIS Europe Ltd., based in West Sussex, one of the premium suppliers of stainless steel towel rails, has added the Ansty to its extensive range. A wall mounted towel rail in ladder conformation of 29 rungs, the Ansty is 1191mm high and 600mm wide and is available in Central Heating, Electric and Dual format and the high quality stainless steel used is offered in a choice of polished finish.

The electric version has three options, the Standard Electric Option, the Cylindrical Adjustable Electric Option and the Radial Adjustable Electric Option designed to be retained in appearance. The unit has four different heat settings with discreet built-in LED lights indicating the current heat setting. The JIS towel rails are covered by a 25 year guarantee.

www.towelshop.co.uk

Yeoman Shield Makes A Colourful ‘Splash’ At School

An innovative range of Yeoman Shield products, the UK market leader in the supply and installation of wall & door protection, has been supplied and installed (specified by Ashdown Council) into the Castle Primary and Nursery School in Ayotnes as part of a refurbishment carried out by Barr Construction.

Wall protection in a ‘wave pattern’ was fitted in an attractive Regatta colour topped with an Aqua Blue wave. Yeoman Shield also provided bespoke decorative ‘splashes’ in White which were fitted above the wave. Other products fitted include Yeoman Fairground Wall Protection panels, Corner Angles and nail caps (in a ‘special’ Purple colour). For further information on Yeoman Shield visit www.yeomanshield.com email sallyann@yeomanshield.com or phone 0113 279 5854.

Enquiry 18

Hygienic Laminates Good Enough To Eat Off!

Abet Laminati has launched Lamishield, an innovative new antibacterial high pressure laminate designed for use in laboratories, hygienic environments and food preparation areas. Lamishield is based on BioCote® silver-ion technology integrated within the decorative top layer to provide a healthy surface which reduces the risk of infection from bacteria and cross-contamination. It also inhibits growth from a broad range of microbes, including fungi and mould, which makes it ideal for high standard hygienic environments. This protection can be applied to most colours and decors within the Abet ranges. Samples and technical literature are available from Abet Ltd’s sample line on tel: 020 7473 6915 or visit www.abetltd.co.uk

Enquiry 19

Stunning Quartz Surfaces From COMPAC

TREND is an innovative technological quartz workurface and flooring collection from COMPAC, which is thought to be ecologically superior in its manufacture and composition to any other quartz worksurface on the market. COMPAC has achieved a virtually zero porosity surface without the need for artificial chemicals; technological quartz comprises 93 - 95% natural quartz - one of the finest and most durable natural materials. This versatile, high-performance product maintains extraordinary hardness, resistance to abrasion and importantly, is easy to clean and maintain.

TREND can be used for domestic kitchens, restaurants, bars, hotels and leisure centres – even wet rooms - and will enhance any project, providing the designer with a stunning and versatile material to work with.

www.compac.eu

Enquiry 24

Tectite Chrome Now Available From Pegler Yorkshire

For installers wanting a highly efficient, quality plumbing system Tectite is fast becoming the fitting of choice. The range, by leading manufacturer Pegler Yorkshire, has recently been extended to incorporate Tectite Chrome which provides the quality and ease of a metal push-fit fitting whilst also addressing the key issue of aesthetics. Tectite Chrome is a metal-push-fit fitting that provides many advantages such as heat free joining offering the ability to install without a hot works permit and therefore avoiding associated administration costs. One of the main factors in the use of Tectite Chrome is the aesthetics, it is perfectly placed for use on an exposed system without it looking out of place and negates the need to use bulky compression fittings.

www.peglyorkshire.co.uk

Enquiry 23

Yeoman Shield

Yeoman Shield Design To Transform

Interior Designers can now rectify furniture, walls and doors by using Interior Film from David Clouting Ltd. Interior Film is a unique range of self-adhesive, decorative films manufactured by LG Hausys for use on a wide range of interior applications. Quick and easy to install, rooms can be dramatically transformed in hours with minimum disruption.

Interior Film is so versatile too and can be applied to almost any interior substrate including: wood, metals, plasterboard, plastics and even melamine. This enables walls, doors, furniture, skirting and architecture to be attractively and quickly transformed. Offering excellent flexibility and adhesion, Interior Film provides the perfect finish, even to curved or complex shapes.

Available in a range of designs and finishes including: exotic woods, Leather effect, textured metals and Natural stone, Interior Film is part of a range of innovative interior surface products exclusively offered by David Clouting Ltd.

www.davidclouting.co.uk

Enquiry 25

‘Eye of the Storm’ Ductal® Table

Armoured are delighted to collaborate with UK furniture designer Stuart Padwick on the ‘Eye of the Storm’ table. This highly original concept design, made from Ductal® Ultra-High Performance Concrete (UHPC), was launched at Earlswood Design Week in London.

Multi-award winning designer Stuart Padwick is known for his warm, witty and sculptural furniture, with sleek lines and his trademark attention to leg design. The Sunday Times recently named his ‘Legs Crossed’ dressing table as number 24 in the ‘120 Design Must-Haves for the Stylish Home’.

Armoured are a leading manufacturer of innovative surface finishes and sculptural effects and as a result have become an integral feature of some of the world’s most prestigious architectural interiors. The ‘Eye of the Storm’ table shows how Ductal® is ideally suited to furniture design, allowing unusually thin sections with an outstanding level of surface finish detail. Its strength and durability is even greater than natural stone.

Ductal® possesses a unique combination of superior properties including strength, ductility, durability and enhanced aesthetics. It can also be pigmented to a wide range of colours. This enables designers to realise new sculptural approaches to concrete forms. Armoured hold the first sublicense to manufacture Ductal® precast elements in the UK.

www.armoured.co.uk www.steuartpadwick.co.uk

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Enquiry 20

Enquiry 21

Enquiry 22

Enquiry 23

Enquiry 24

Enquiry 25

Enquiry 26
Shower In Style With Multikwik Trapped Shower Gully

The new Multikwik trapped shower gully for tiled floors is the last word in versatility. Offering a choice of four grates to go with one of the four gully bodies, it makes it a versatile, lightweight, easy-to-fit product – with an adaptable riser to allow for different flooring heights, diverse connection options and different seal depths. This makes the new Multikwik shower gully simply the handiest, neatest product to use for modern shower installations.

The Multikwik trapped gully for tiled floors has also been designed with superstar looks. There are four different grate options to suit any bathroom design. In addition to the classic and square designs, there is a dual grate option that has a smooth top, but can also be flipped and filled in with tiles to match the surrounding flooring. Plus there is also an anti-vandal option for schools, hospitals, leisure centres and other public buildings.

With high flow rates of up to 0.98l/s depending on the gully, Multikwik shower gullies are in accordance with BS EN1253. The high flow rates reduce the risk of costly blockages and repair, making it the perfect solution for power showers. Should anything get washed down the gully, it features an ingenious additional grid so that earrings and the like can be easily retrieved – and it helps to prevent blockages too.

Remmers Serve up 5th Flooring at Hotel

Remmers Florestis DQ system has been installed by Phoenix Specialist Flooring to upgrade the floors and covers to the kitchens of a major hotel chain in the Midlands. The system was laid over the existing quarry tiles using Remmers FAS Primer 100, chosen for its exceptional bond to wet, glazed and difficult surfaces. Due to the nature of the busy hotel kitchen area, the Florestis DQ system was selected by the Client to meet their requirements for a seamless, hard wearing surface that was easy to clean and maintain. All this was achieved providing a good level of slip resistance. The installation was carried out over four days as part of a fast track, full kitchen fit-out project.

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New Expressions Shower Tray Range Launched By MX

The UK’s leading shower tray manufacturer MX Group has launched its latest shower tray range into the marketplace. The ‘Expressions’ range has been designed to provide the maximum showering area, incorporating a discreet, hidden waste system, yet the trays drain via a standard shower waste.

The MX level waste design incorporates a standard waste outlet and allows easy access to clean, maintain and service without the need for an expensive gully waste system. The new range features an acrylic ABS finish, and weighs in at 40% lighter than a high wall stone inset shower tray. As with all the MX product ranges, it’s quick and easy to install and it’s made with WRAS approved Phthalate free materials. It features a contoured underedge for ease of leg location on raised shower tray installations.

The Expressions shower tray range is available in a range of popular shapes and sizes, making it an extremely attractive, yet highly practical shower tray design for the bathroom.

Enquiry 26

Radiators As Part Of The Furniture...

Traditionally radiators have been fairly functional items – but things are changing fast! Stelrad has introduced a wide range of designer radiators that still provide the heat required very efficiently but which are now very much part of the decor.

Take a look at www.stelrad.com – you’ll be surprised at the wide range of attractive radiators that you can choose from today. The latest (illustrated here) is the Saving radiator – which is equally at home in a home or office environment. Available in a range of sizes and 35 different colours it makes selecting your radiators as much fun as the rest of the decoration.
B&Q Superstore Benefits from Natural Daylight

B&Q’s new superstore in Burgess Hill features Contour insulated rooflights from Hambleside Danelaw. As with all B&Q’s new build projects, rooflights manufactured by Hambleside Danelaw were specified because they maximise the use of natural daylight and reduce carbon emissions. 720m of rooflights were required as part of a CA Toon There system. For this project using Contour rooflights, the profiles 117/1100 liner panel and CA2/1000 weather sheet were required. The liner panel was produced to a weight of 2.3kg/m² and to a SSA0 fire rating. The polyester isolation layer between the liner panel and the GRP weather sheet means the U value to 1.300 W/m²K indicating high levels of insulation and has a positive impact on reducing the buildings energy usage.  

www.hambleside-danelaw.co.uk

Klober Air-Open Membrane For Duchy Of Cornwall Project

Pereno® Air is being used by Morris Builders on 70 new homes at Tregunnel Hill, near Nempsey. Due to the NBH’s endorsement of open underlay without supporting high level ventilation Pereno air will ventilate roofs effectively while maintaining a untreated roof line. The development for the Duchy of Cornwall is on the edge of the town centre and will provide a variety of homes, building upon previous work at Prueybrome.

It will reflect best practice approaches to urban design using traditional local materials and those which present a low environmental impact. Tregunnel Hill is the latest high profile project in which Pereno air has been specified, with others ranging from listed buildings to contemporary commercial and residential developments.

www.klober.co.uk

Green Roof Waterproofing Is A Walk In The Parkside For Kemper

Kemper System, has helped ensure Telford Homes’ Parkside Quarter development reflects the greenery of its location. The Parkside Quarter development includes a five-story block for shared-ownership, and a two-story block for affordable rental. Designed by David Wood Architects, the Parkside Quarter development is part of a CA Twin Therm system. For this project using Contour insulated rooflights from Hambleside Danelaw were specified because they maximise the use of natural daylight and reduce carbon emissions. 720m of rooflights were required as part of a CA Toon There system. For this project using Contour rooflights, the profiles 117/1100 liner panel and CA2/1000 weather sheet were required. The liner panel was produced to a weight of 2.3kg/m² and to a SSA0 fire rating. The polyester isolation layer between the liner panel and the GRP weather sheet means the U value to 1.300 W/m²K indicating high levels of insulation and has a positive impact on reducing the buildings energy usage.

Kemper System’s EP primer was used to seal the concrete substrate and provide the ideal key for the liquid waterproofing membrane to bond to. Once cured, the installation team then applied the Kemperol V210 resin to the primed substrate, completing the roofs one section at a time. Kemper System’s EP primer was used to seal the concrete substrate and provide the ideal key for the liquid waterproofing membrane to bond to. Once cured, the installation team then applied the Kemperol V210 resin to the primed substrate, completing the roofs one section at a time. Kemper System’s EP primer was used to seal the concrete substrate and provide the ideal key for the liquid waterproofing membrane to bond to. Once cured, the installation team then applied the Kemperol V210 resin to the primed substrate, completing the roofs one section at a time.

The Kemperol V210 resin saturates a polyester reinforcement fleece and cures to form a tough and durable, monolithic, seamless membrane with no linings. It remains permanently flexible to cope with building movement; has a BBA certified service life in excess of 25 years and is completely root resistant. Insulation was installed directly on top of the Kemperol V210 membrane followed by a 25th thin attenuation layer, which enables rainwater to drain off the roof. Finally, the growing medium was installed along with plug plants to create the finished green roofs.

www.kempersystem.co.uk

Yeoman Rainguard Gives Historic Dublin Cathedral New Lease Of Life

Yeoman Rainguard lead effect GRP rainwater pipes, clips and hoppers have been used to replace damaged rainwater systems on the historic St Patric’s Cathedral in Dublin. Architect John Beauchamp from Benjamin + Beauchamp Architects Ltd said: “We specified Yeoman Rainguard GRP for this project so they were able to match the design of the existing pipes and hoppers by producing moulds from which glass reinforced plastic replicas were supplied.” New downpipes were colour matched to the existing lead and produced in three separate colours to ensure a seamless bespoke installation at each location. For further details visit www.riepaul.co.uk or email sallyann@rainguard.co.uk

www.riepaul.co.uk

ALM Warmfast Fixings Isolate Cold Bridges In Metal Roofs

Thermal bridging on metal roofs is a major threat to fullfilment of any systems design life. Without adequate ventilation and an effective vapour barrier, cold metal flaps penetrating the insulation will cause condensation. ALM Warmfast® fixings are isolated between the outer skin and substrate, compressing the built-up layers and leaving no interstices to provide condensation points. Their “tectonic” function aims to accommodate compression while polypropylene sleeves provide low thermal conductivity. Usable for insulation thicknesses up to 97mm, they can also be installed with overlapping flaps to prevent air leakage. The fixing plate has a similar centre to a conventional cleat but has a pull-out value of 13mm using only one fixing rather than three. A reinforced, self-adhesive vapour barrier has also been developed for trepical decks, sealing around the numerous through-fixings which typify this type of construction.

www.almhom.co.uk

Maximum protection Minimal effort

Safesite’s GUARDRAIL range is designed to provide permanent edge protection where regular access is required. The flexibility of the systems offers the choice of free standing edge protection (including standard, canted, tallback, hopped and counterweight type systems), as well as collective protection for metal profile and standing seam roofs, providing a solution for every situation. Safesite offers the complete range of health and safety solutions, from site survey to design and installation – all backed by system training and annual re-certification.

www.safesite.co.uk

Fragile Roof Access Solutions

Guardsite / Mobile Anchor / Demarcation / Mobile Valley Frame

Guardsite Roof Acceso Solutions / New Anchor Beam / Ladder Pedestals

Self Closing Gate / Life Line Systems

www.safesite.co.uk
**RIEFA Lightweight Living Roofs**

Riefa boards are a new type of green roof substrata. They are a hi-tech fibre board made from organically grown and sustainable natural resources, including rye flour and tree bark. The manufacturing process is essentially the same as baking: the ingredients are mixed in dough bins and then baked in second-life biscuit ovens.

Riefa boards are primarily used as an insulation board in the manufacture of doors and as a sound insulation in partition walls. The dimensions of the boards in their dry condition are 30mm thick and 2400 x 1200 mm, and they only weigh 3kg. This makes them very easy to transport and distribute across the roof. The Riefa organic fibre roof-growing medium is made and produced in a demonstrably sustainable way. It is the light, fits readily into place, its low depth profile doing away with the need for expensive alterations to parapets. Easily installed over tired or redundant roof covers, a simple rubber membrane overlay eliminates the need for expensive removal and removes the need for the disposal of hazardous oil-based systems.

Contractors do not need specialist skills to install the Riefa system. It fits seamlessly onto sloping, pitched or shaped roofs of all kinds. Nutrient rich and superb at retaining water, Riefa boards have been tested to destruction as a growing medium. To come and see us at Greenbuild expo in Manchester on May 6/7 and at the Chelsea Flower show in May.

www.riefagreenroof.co.uk

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**Glassolutions Helps Victorian Shopping Arcade’s Transformation**

A historic arcade in Leicester which is one of the only examples of its kind in the UK has reopened following a £3m refit involving multiple glazing installations by GLASSOLUTIONS:

The Grade II listed Silver Arcade, which features 20 units, was built in 1891 and is believed to be one of only two four-storey arcades in the UK. Despite being an iconic Leicester building, it has been closed for more than 10 years and consequently fell into disrepair before a redevelopment project started in 2009.

GLASSOLUTIONS’ Contracting and Commercial Glazing teams collaborated to deliver a huge array of glazing for the award-winning project, including a full length patio glazed rooflight, fire-rated doors, screens and shop fronts.

The brief also included full-height structurally bolted entrance screens, automatic glazed door sets, balustrades and stunning glazed folding sliding doors featuring within shop fronts.

Shaun Chawla, owner and company director of Silver Arcade developer Lukegate Limited said: “We are extremely pleased with the result of the Silver Arcade project. It’s a beautifully restored Grade II listed building that will enhance the character and appearance of Leicester’s Market Place and High Street Conservation Areas, as well as preserving, and in many ways enhancing, the architectural and historic importance of Silver Arcade. GLASSOLUTIONS played a key role in the successful project delivery, with the numerous glazing elements being crucial in achieving the desired aesthetics, safety and security. The refurbishment has given the building a new lease of life and guarantees its future for decades to come as a well-loved piece of Leicester’s City Centre and historic identity.”

Not on the heels of winning in the ProCon Leicestershire Awards, Silver Arcade has now picked up a Forum for the Built Environment (FBE) award and it has attracted praise from across the region’s property and development sector. This includes Stuart Bailey, chairman of Leicester Civic Society, who described Silver Arcade as “a very fine, very clever building” and “significant nationally.” With a choice of vacant units still available, Silver Arcade is currently being marketed by Lambert Smith Hampton with full details of availability on their website.

www.glassolutions.co.uk

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**Cumbrian Homes’ Howgill Skies Development**

Located close to one of South Cumbria’s most picturesque market towns, Sedbergh, the Howgill Skies development has been designed and built to the latest standards. Developer Cumbrian Homes required high performance insulation to achieve target U-values of 0.21 W/mK in the cavity walls and 0.21 W/mK in the pitched roofs. Although to review the project’s cavity wall requirements, Celotex Energy Assessments (CEA) and the Celotex Technical Centre worked closely to produce Standard Assessment Procedure (SAP) calculations that would achieve space-saving requirements whilst simultaneously delivering improved U-values.

CEA was able to change the previously specified full-fill external wall insulation to Celotex CW4000 partial-fill solution – with 3,000m² supplied in a thickness of 50mm helping to deliver U-values of 0.21 W/mK. Using the thermal modelling results, CEA was also able to model the U-values for the pitched roof insulation to achieve the values previously specified, with fewer materials and reduced costs.

With its quick and efficient sustainability services, Celotex removed the hassle from the contractor whilst delivering the cost optimal insulation solution. For more information, visit www.celotex.co.uk
Comar Architectural Aluminium Systems were awarded the contract to design, fabricate and install the windows at Whitbread’s new Premier Inn, part of the multi billion pound Westfield Stratford City. The Comar 5P.i window system uses trademarked Polyamide Insulated (P.i) that provides exceptional thermal performance. From fifteen basic (P.i) profiles, all window configurations, such as casement, top swing reversible, pivots, tilt and turn and sliding can be manufactured.

For the sleek modern façade, Comar 6 ladder frame curtain walling was specified. Comar 6 curtain walling is a versatile thermally efficient system designed to integrate panels and glass of different widths into the façade with special profiles to integrate opening vents and doors. The design of Comar 6 makes it ideal for complex facaded wall systems as well as sheared glazed façades.

www.comar-ala.co.uk

Enquiry 41

Dorma Delivers A First Class Service At Luxury Westminster Hotel

At the new InterContinental London Westminster – in the former Queen Anne’s Chambers – over 100 door closers and floor springs from DORMA have helped architects Dexter Moren Associates to transform a 18th century former government building into a luxury hotel fit for the 21st century.

As a showcase project in the UK’s political heartland and the first InterContinental to open in London in 34 years, the hotel design embodies laconic living and British heritage. With consistency of quality and finish of paramount importance throughout the development, architectural ironmonger Harbridge specified a range of features, fittings and equipment from market leaders DORMA. Approximately 300 + 175.96 concealed door closers and 40 x B15 80 EPB, BTS 80 and BTS 79V floor springs were supplied and installed across the hotel to offer maximum reliability, proven quality and peace of mind.

The first system of its kind to subtly integrate door closers into the leaf and frame of the door itself, the DORMA DORINA 75s-96 can be incorporated into most door types to maintain an elegant interior design. Combining a stunning appearance with exceptional performance, the DORMA DORINA concealed closers were selected for the bedroom doors due to their low opening forces (in accordance with BS6321:2009 and Approved Document M1). Fire test performance and hidden design.

To complete the specification and further improve accessibility for the hotel’s visitors, a series of DORMA floor springs were specified. These were installed below floor level and finished with a Terrazzo pan as an alternative to a cover plate, providing a continual floor finish to perfectly complement the hotel’s stunning new interior.

Suitable for all door types and CE marked to BS EN 1154, the DORMA IT96 concealed floor springs feature a two-valve controllable closing cycle, adjustable closing speed and backcheck. www.dorma.com

Enquiry 45

Experiencing Bold Design Begins With A Striking Entrance

Trahan Architects’ Louisiana Sports Hall of Fame and Northwest Louisiana History Museum project took a contemporary approach that combined bold and practical elements into an imaginative modern design.

The architects looked to CRL-BluGard® 1891 Series Xil-Glass® Entrance Systems that contain the slimmest door rail profile in the industry, allowing for virtually unobstructed glass viewing areas to elevate the high-concept building’s modern aesthetic. 1891 Series Entrance Doors are the original. Often imitated but never matched, this system provides the most glass with the least metal of any entrance door system on the market.

This award-winning project serves as just one example of C.R. Laurence’s ability to provide architects and designers with well-engineered products for a wide range of projects of varying sizes, aesthetics, timelines, and performance criteria. www.crlaurence.co.uk

Enquiry 41

Comar Is Premier Choice For Whitbread

Leading architectural ironmongery manufacturer SIMONSENBERG will again be exhibiting at the 100% Design Show at Earls Court in September, showcasing the latest developments in hinge technology. Visitors to their stand, number E 19, in the ECO, Design & Build section of the exhibitions, will be able to view the power transfer TECTUS Energy system with new adapter plug connections including one for FUHR motor locks and all with torsion-proof and snap fitting connection systems. Also on show will be new versions of the heavy duty WARIANT range with Finger Protection, 40kg and “Curv” systems – the latter specifically designed for public sector buildings where frame dimensions need to allow real clearance widths for doors to open with a 90° angle, plus the TRITECH solid brass hinge with new PVD finishes. www.simonswerk.co.uk

Enquiry 43

Optima Adds Key Product Ranges To BIM Library

Optima is set to launch Building Information Modelling (BIM) objects for its two most popular ranges – helping to make the specification of these products even more accurate, cost-effective and efficient.

Optima has created BIM objects for two of its products – Optima 117 Plus and Revolution 54. These BIM details will provide architects and specifiers with product data and information to help create specifications that deliver better performance and improved accuracy. It also gives key decision-makers the ability to view specific systems in the context of the project as a whole.

Using Optima’s BIM objects, architects, contractors and specifiers can now deliver the highest performance solutions easier than ever before. www.optimasystems.com

Enquiry 44

100% Simonswerk Hinges

www.simonswerk.co.uk

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Enquiry 44

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Enquiry 45
2014 sees Essex Safety Glass have a renewed focus in its attentions towards its Solarchromic Climate Control range of glass. In a climate with increasingly extreme weather at each end of the spectrum and an economy of increasing energy costs, people are looking for new ways to improve building efficiency whilst keeping costs down. By minimising solar heat gain during the summer and maximising it during the winter, Solarchromic glass maximises the efficiency of a building’s temperature control, in turn keeping down energy costs. With its electronically controllable tint, the glass reduces a building’s energy consumption, lowering its impact on the environment it acts as an increasingly sought-after design feature. Available in manual or automatic control, panels can also be controlled individually or as a multiple panel system. This makes it ideal in any situation where excessive solar heat gain is likely to be an issue – for example, large facades, atria, conservatories and office buildings. ESG Solarchromic™ is a bespoke made glass, meaning that any application and shape can be catered for, with sizes going up to 1350x3300mm. This can also be coupled with ESG’s range of LCD privacy, security or fire resistant glass products for a total glass solution.

Scott Sinden, Managing Director of ESG, comments: “With the introduction of BIM, more focus is placed upon the efficiency and running costs of a building over its life span with architects and designers continually looking for ways to improve both of these. Solarchromic climate control glass reduces solar heat gain in the summer and trapping it in the winter, eliminating the need for air conditioning and lowering the use of heating. This significantly reduces the overall running costs of a building.” For further information, please visit www.essexsafetyglass.co.uk/solarchromic/
Hörmann HST Side Sliding Sectional Door

Innovative and stylish, the Hörmann HST side sliding sectional garage door applies modern materials and design elements to a traditional door style.

Smooth, quiet and safe, the design makes this door particularly suitable for when headroom is limited and offers an alternative look for any project.

When it comes to practicality, the world’s first handle actuated, automatic wicket door function gives pedestrian access without the need to fully open the door or the need to accommodate a separate entrance. A simple press of the handle or handset will open the door to a predetermined point. Whether access for a bicycle, motorcycle or lawnmower, this function can be set to any width to suit.

Precise and easy door travel is achieved with Hörmann’s unique twin rollers that add to the stability and longevity of this door. The open ended aluminium floor rail is easy to keep free from leaves and dirt and guides the door panels securely, essential for both the manual and automatic versions.

Double automatic safety cut-outs on the opening and closing cycle, plus the designed in finger trap protection, on both the inside and outside, add to its safe operation.

Flexible weather seals keep the elements out and contribute to a notable thermal U-value of only 1.8 W/m²K, for a fitted unit. 42mm thick polyurethane insulation is important in this regard and also enhances the strength and rigidity of each panel adding to the longevity and ease of use of this refreshed door design.

www.hormann.co.uk

Step Out Of The Ordinary With Premdor French And Folding Doors

Premdor French and Folding exterior door ranges are the ultimate in style, quality and functionality, creating immediate added value and providing a synergy between home and garden. Manufactured using the latest technological construction techniques, Premdor’s external folding doors are supplied ‘ready to assemble’ with most components pre-machined for ease of installation on site.

The highly stable doors are 54mm thick incorporating a solid hardwood core with 3mm slices of oak or hardwood veneered on each visible surface. To guarantee every door looks like new for years to come, each set is factory finished with 3 coats of micro porous finish, comprising one total immersion dip coat and two top coats providing maximum uv protection.

With the highest standards as standard, Premdor French and Folding doors are pre-glazed with 24mm Argon filled low ‘E’ double glazed units for thermal efficiency. Sets come complete with doors, frame, cill, hardware, threshold, locks, handles and draught seals and meet or surpass all legislative and industry requirements.

www.premdor.co.uk

Crittall Deal An Ace In Shoreditch

Ace Hotel London occupies the original site of the Shoreditch Empire and its successor, The London Music Hall. The newly created 258-room hotel – taking an existing building and rehauling it into a distinctly boutique environment – is just a few minutes’ walk from Brick Lane, famed a conservation area and inhabited an urban landscape that over the centuries has featured grain warehouses and industrial buildings that housed many skilled trades from silk weaving to metalwork, ship building to shoemaking. The façade as well as the interior of the hotel was conceived by Universal Design Studio for clients Ace Hotel (Starwood Group) to reflect not only the urban character of the area but also the skills, crafts, artistic and cultural influences that imbue Shoreditch with its East End vibe.

It was the local metalwork tradition that led to the appointment of Crittall Windows – the Essex-based manufacturer with more than 160 years’ experience in crafting metal windows - to furnish a number of the building components, not merely Corporate W20 fixed lights and cold form entrance doors to the ground-floor entrance and lobby area but also internal partitioning screens that divide the lobby space from the hotel’s bar and restaurant – the trio Pollini – and also a florist, Hattie Fox’s the Flower Shop, which specialises in sustainable, medicinal, and culinary plants. The lobby screens also come from Crittall’s Corporate W20 range, glazed with half height insulated panels and textured Georgian wired glass above. The company also supplied screens that were used to clad the existing structural columns to maintain the theme of the rest of the internal glazing.

The Flower Shop is indicative of the hotel’s design ethos, locating within the hotel a typical High Street shop which is very much part of the local community. The choice of Crittall fenestration also means a traditional steel framed system that references the articulation of traditional shopfronts in the surrounding area.
A stylish and minimalistic alternative to traditional balustrade is now available with the launch of Elan, a new semi-structural glass system from NEACO.

Most balustrade designs secure glass infill panels in place by attaching them to the stanchions with a clip, but Elan’s glass panels are secured by a top rail above and a sub-frame channel below. The result is a sleek appearance, an economical use of materials and an easy-to-install solution. Designed for non-removable installations, Elan is also available as a modular balcony system complete with aluminium grilles fixings.

NEACO’s National Sales Manager, Jason Hensey, said: “Elan offers all the classic characteristics that define our Spectrum balustrade and balcony range – namely its smooth contemporary aesthetics, maintenance-free durability and a modular system which provides exceptional design versatility and enables fast, low-energy construction with no welding or hot works required. Elan top rails and stanchions are powder coated for a non-slip, warm-to-touch finish and the glass is toughened with tinting options available. All of our latest modular balustrade and balcony options will be featured within a comprehensive new brochure which is due for release this summer.”

Available with a class-leading Lifetime Guarantee, NEACO’s Spectrum range of handrails, balustrade, balconies and structural glass offers a huge choice of modular components. Systems can be specified in stainless steel or aluminium powder coated in a variety of solid colours, metallic colours and intricate wood-effect finishes. www.neaco.co.uk

Fire And Smoke Protection In Public Corridors

Doors in corridors of hospitals and other buildings receive a great deal of harsh treatment, especially the door edges. In the event of a fire, such corridors will become a fast route for fire and smoke transmission, and as worn edges of the door will inevitably decrease the effectiveness of a fire defence, lives could be at risk.

Kent and Canterbury Hospital rely on corridors not only to transport patients between wards and clinical facilities, but for moving food, laundry, and waste around the campus. The problem of battered door edges and fire and smoke sealing can be solved with a low-cost, easily-fitted Envirograf® product 108 Door Edge Protective Trim with smoke seal. Envirograf® product 100 fire and smoke seal can also be added to the trim for additional safety.

The hospital have also installed Envirograf® product 43 Magnetic Door Hold system. The unit has been carefully designed to hold open single or double doors, from a duration of 20-67 seconds, this will allow ample time for toiletries and equipment to pass through. The door holder will release the door after the specified time, to ensure that the door can resume as a barrier in the event of a fire.

The system will help to cut down on draughts, noise and loss of heat, as well as preventing buckling and distortion of doors, a common problem with permanent door holders. No wiring is needed to activating fire alarm system as agreed by the fire brigade, because the duration of door opening is under one minute. The 24V electromagnet releases the door to be shut by the door closer as usual. Ideal for hospitals, residential homes, offices, computer suites, hotels and warehouses. The Magnetic Door Holder can also be supplied for operations by the people with impaired vision.

These products are just one of the many that Envirograf® offer including: Fire protective and fire retardant coatings for Ceilings, Fibreglass and Steel, Downlighter Covers, Trunking Pillows and sleeves, Pipe Collars and Hoods, Cable tray protection, Electrical Consumer Unit protection, Fire and Acoustic protection for Electrical Sockets, Ventilation Grilles, Letter Box protection, Animal door protection, Under Floor fire barriers, Fire Barrier Curtains, Fire Barrier Curtains for Refrig, Upgrading Doors, Window Seals, Suspended Ceiling protection, Fabric and Upholstery protection, Resistors, seawalls, Fibres and Adhesives and much more, visit www.envirograf.com for the complete list.
Comar Architectural Aluminium Systems have designed additional mullions, transoms and feature cover-caps to Comar 6EFT to launch the most comprehensive 50mm curtain wall system available today. After extensive research with our architectural and fabricator network we are pleased to offer additional high span mullions and transoms with the highest Ix and Iy values in the industry, allowing you to span further or keep the same flush box size throughout glazed areas.

From one range of profiles Comar 6EFT offers capped, 2sided structural glazing with vertical or horizontal capping and 4sided structural glazing. Comar 6EFT 4sided SG offers the slimmest structural glazing joint available today and can be either silicon or EPDM gasket sealed.

For details and downloads, take a look at www.comar-alu.co.uk today.

We are pleased to offer BIM families to our architectural and contractor colleagues, please email projects@parksidegroup.co.uk for further information.

Curtain Walling - Capped, 2sided SG and 4sided SG
Flamebreak Ticks All The Boxes With Specifiers

As popularity of James Latham’s high specification door blanks, Flamebreak, continues to grow, the UK’s largest independent timber and panel products distributor, is now offering them directly from stock at every one of its nine nationwide panel sites.

Available as FSC (Forest Stewardship Council), Flamebreak door blanks are manufactured with a special three layer tri-laminated hardwood timber core, which helps to eliminate gaps, ripping and telegraphing. They are also lightweight, and have an excellent substrate for easy machining and conversion, making them easy to handle and fix.

The Flamebreak range boasts an extensive list of industry recognised accreditations and certifications including; British Standard BS 476 (Part 22 1987) and BS EN 1192 – 1 as well as PAS21 and PAS24. Flamebreak door blanks also hold D0171 and BS EN1192 ratings for durability and wear and tear and have been successfully tested to meet the requirements of the BWF Certifire Scheme as well as attaining BMTRADA U Mk.

Plus, the benefits of these high specification door blanks don’t end there. Flamebreak achieves U-values of 0.8/m2K for thermal insulation as well as sound insulation readings as high as 35dB.

Latham’s Group Manager for doors, Steven Dennard, said: “The benefits of Flamebreak door blanks are there for all to see. They boast a long list of technical and environmental features and weighing in at only 31kg each for a plywood faced 2135 x 915 x 44mm, means a single door blank can easily be worked and machined by one man.”

Flamebreak door blanks are not only technically superior but also aesthetically superior too and can easily be laminated, painted or veneered.

For more information on James Latham, and its full door blank range or the stringent fire, thermal and acoustic testing or veneered.

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GEZE UK Adds A Touch Of Colour To Its Overhead Door Closers

GEZE UK, the UK’s leading manufacturer of door and window control systems, has reported a growing trend for special finishes on covers for overhead door closers.

The company’s comprehensive range of overhead door closers are all available in a variety of different cover shapes and finishes including traditional silver, RAL satin stainless steel, polished stainless steel and EP polished brass as well as special finishes such as bronze, pewter or a variety of different colours.

While stainless steel remains the most popular of its standard finishes, bronze, dark bronze and polished finishes are all growing in demand as architects and specifiers look to match the covers with other architectural themes used throughout a project.

In addition to offering a range of different finishes, each closer cover is available in a choice of shape – contract covers, half radius and square providing a huge choice to the specifier. Each of GEZE’s overhead closers has the same styling, which ensures design consistency throughout the building, even when different covers have been specified to meet the specific needs of different doors. They also have the same fitting footprint as either GEZE closers, meaning that it’s easy to upgrade to larger units without having to re-drill the door.

Each closer is fully tested and certified in accordance with applicable standards EN 1154, EN 1155 and EN 1158. In addition each closer holds a relevant Certifire certificate, are CE marked and have a Declaration of Performance.

Reynaers Curtain Wall System Enhancements

Reynaers highly versatile curtain wall system now offers an improved range of style variants with the introduction of the newly enhanced CW 50 range.

Optimized to carry larger glass sizes and triple glazed units, this extremely cost-effective and versatile curtain wall system provides market leading levels of wind load resistance and water tightness, combined with maximum natural light entry.

A curtain wall and roof façade system developed to offer unlimited creative freedom, CW 50 has one of the largest ranges of individual style variants offered by any architectural curtain wall system with 11 options available.

This versatility means the system can accommodate virtually any combination of vertical and inclined plane with the added capability of the capability to carry significantly more glass weight as a result of the integration of different types of vents.

Within the range high insulation variants as well as fire resistant solutions are also available. The roof façade has the ability to achieve inclinations up to 80˚ enabling architectural creativity and a high insulation flush roof vent is available, which blends seamlessly into a structure. Various other vent options are available within the range including top and bottom hung, parallel openers and tilt and turn.

Technical improvements and modifications to the system means it now has the capability to carry significantly more glass weight as a result of the new developments with the components and glass supports. The standard system can carry a glass weight up to 200 kg, tubular supports can carry up to 310 kg while the continuous support accommodates panels of up to 400 kg.

Specific projects that require an even greater weight can be considered on discussion with the Reynaers technical team.

The CW 50 curtain wall system can achieve a thermal insulation UF value down to 0.8 W/m²K, depending on the profile combination.
STYROFOAM Insulation Stockist Network Expanded

Aquatiere Eco Tx Water Softeners

Evomod High Specification Boilers Offer More Options For Commercial Buildings

Air Curtain Training Webinar - 19th June 2014

Hydronik – The Top Name In Underfloor Heating

A radiator that saves up to 10.5% on your energy bills.
Avoiding Part L Risks

Following implementation of the new Building Regulations Part L, this April, consumers are growing that greater air-tightness in new housing could increase carbon monoxide poisoning risks, justifying more stringent requirements for CO alarms.

Mandatory requirements for CO alarms are dealt with by Building Regulations Part 3 – but this is woefully inadequate, only requiring a CO alarm with installation of certain, solid fuel heating appliances. Clearly, an update of Part 3 is urgently called for to address the problem. In the meantime, all those involved with housing should consider fitting CO alarms as a matter of course. And the latest generation of self-contained CO alarms with sealed-in battery from Kidde provide a safe, cost-effective solution.

Kidde’s 10LLCO is the only range of 10-year guaranteed alarms with CO sensors actually tested throughout a 10-year period or longer. Kidde also manufactures its own sensors, allowing tighter quality controls to be applied. The 10LLCO range offers low cost of ownership, with ‘Best Value’ over the 20-year life, and is ideal for social and private landlords.

Both models are small in size with a slim profile and can be wall-mounted or used freestanding. They are simply activated by the slide-on back plate, so preserving battery freshness until needed, and a tamper resisting self-locking installation system avoids alarm theft. One model – 10LLCO – has a digital display to provide early warning of intermittent and low levels of carbon monoxide. A ‘Peak Level’ button can also help identify CO problems occurring when the property is not occupied. For more information, visit www.smoke-alarms.co.uk or email: sales@kiddesafety.co.uk

Aico Radiolink Alarm Technology Takes Centre Stage At ‘Housing 2014’

Aico’s unique Radiolink Professional wireless interconnect mains powered smoke and Carbon Monoxide (CO) alarms are being exhibited at the Chartered Institute of Housing’s ‘Housing 2014 Conference & Exhibition’ in Manchester, 24-26th June.

Interconnecting smoke alarms in a domestic property is a requirement of BS 5839-6: 2013 (the standard for domestic fire alarm installations) and Building Regulations; it provides an earlier warning for residents and the best chance of escape. However, hard wired interconnection can be time consuming, disruptive and costly. Aico’s Radiolink, on the other hand, works by allowing mains powered alarms to be wirelessly interconnected. If one alarm on the system is triggered, Radio Frequency signals are used to cause every other Aico alarm in the property to sound.

Radiolink is also able to wirelessly interconnect to other devices for maximum effectiveness and flexibility, including Aico CO alarms and Alarms for the Hearing Impaired, as well as third party equipment such as sprinkler systems and Barden Call Systems.

Radiolink compatible alarms, including the mains powered E1560 Series smoke and E1262 Multi Sensor and E1263 CO alarms, plus the new E1269RWF and E12690WRF Lithium battery powered CO alarms, will all be on show at Housing 2014. In addition Aico will be displaying a range of alarm accessories, including the new wireless E450 Alarm Controller, which allows residents to simply test and silence all the alarms on the system and quickly identify and locate the exact unit which has triggered the system (visually identifying if the source is a fire or CO), all from one convenient location. Visitors to the show can register for these books at the show, or online at www.aico.co.uk

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Castle Has A 20 Year Secret

Built by Henry VIII between 1539-2540, Walmer Castle (Kent) was to serve a purpose as an artillery fortress, guarding England from the threat of French and Spanish invasions. The castle has since enjoyed the attention of locals and tourists alike, and have received the honour of welcoming Her Majesty Queen Elizabeth the Queen Mother, within its walls.

A threat of a different kind to the castle however, still remained, that of the risk of a fire destroying this important part of our heritage. Over 20 years ago, the Envirograf® technical team was contacted, to offer fire protective coatings for the wooden panels on the walls within the living quarters of the residence. The panels were coated with product 42, HR5150xpe, and HR622 clear intumescent coating, to provide 30-40 minutes protection. The special coatings have been formulated and designed to ensure that the panels of the castle would retain their longevity and original appearance.

The fire protective coatings have recently been inspected, and they still look as good as they did over 20 years ago. This project, has since become one of the testaments for Envirograf® coatings outstanding long term performance.

Envirograf® coatings have established a highly successful track record of providing protection for many historical buildings of our nation including Alnwick Castle, Buckingham Palace, Cambridge University, Crowe Hall and Shirley Mannes.

The coatings are just one of the many products that Envirograf® offer including: Fire protective and fire resistant coatings for Ceilings, Fibreglass and Steel, Downlighter Covers, Tamper Pillows and Sleeves, Pipe Collars and Wraps, Cable tray protective, Electrical Consumer Unit protection, Fire and Acoustic protection for Electrical Sockets, Ventilation Grilles, Letter Box protection, Animal door protection,Under-Floor fire barriers, Fire Barrier Curtains, Fire Barrier Curtains for Roofing, Upgrading Doors, Door and Window Seals, Suspended Ceiling protection, Fabric and Upholstery protection, Mastics, Sealants, Fillers and Adhesives and much more, visit www.envirograf.com for the complete list.

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Unprotected gaps in walls and ceilings are a major fire risk, and especially when a fire penetrates the cavity section of the structure, it can quickly spread as fast as an express train to other areas of the building, causing huge risks to life and property.

Envirograf® Cavity Barriers are providing state of the art fire protection for the new Elimotion staff accommodation project at Peterborough Hospital. The project will feature over 100 beds, increased levels of insulation, low-energy lighting, energy efficient heating systems and water-saving technology. The new accommodation block will be installed by Elliott, with the help of Richard Morris Construction Ltd in just 16 weeks on site. The building will have a 60 year structural design life with a 25 year structural warranty.

Envirograf® Cavity Barriers are a superb practical way of halting the spread of flame and smoke, they also enable occupants valuable time to evacuate the building safely in a fire. The barriers are moisture resistant and are easy to install and can offer fire protection up to an incredible 132 minutes BS EN 1353-1:1999.

The new development at 243 Ealing Road attains new heights in terms of specification, quality and setting. The 14 storey tower, forms the cornerstone of the development and is complemented by six lower rise buildings. All apartments have a balcony, patio or terrace allowing everyone to enjoy this attractive setting and many also benefit from far reaching views across London.

Not only will the site look great, but it has been ensured that it conforms to the strict fire protection standards via the use of the Envirograf® high quality cavity fire barrier (Product 55), which have been installed by Simco EFS, who also were tasked with ensuring that principles of sustainable development run throughout the whole scheme. Envirograf® Cavity Barriers are a vital and life saving product in every construction project, and without the use of these products, sealing the gap could mean the difference between life or death!

Envirograf® have a massive range of products designed to seal every conceivable gap in all new build and refurbishment projects. The range includes, Fire protective and fire retardant coatings for Timber, Ceilings, Fibreglass and Steel, Downlighter Covers, Trunking Pilines and sleeves, Pipe Collars and Wraps, Cable tray protection, Electrical Consumer Unit protection, fire and Acoustic protection for Electrical Sockets, Ventilation Grilles, Letter Box protection, Animal door protection, Under-floor fire barriers, Fire Barrier Curtains, Fire Barrier Curtains for Roofing, Upgrading Doors, Door and Window Sails, Suspended Ceiling protection, Fabric and Upholstery protection, Masonics, Seals, Fillers and Adhesives and much more, visit www.envirograf.com for the complete list.
WOOD AWARDS 2014 – From Strength To Strength

The national Wood Awards recently closed its call for entries with an impressive 262 individual architecture and furniture entries. Located across the whole of the UK, the projects entered use a vast range of wood species, treatments, innovations and timber products, and early feedback from the judges indicate that it is not only a bumper crop, but one of excellent quality, making for another fascinating competition.

The Wood Awards independent judging panel now has the challenging task of selecting a shortlist of projects which will be visited in person over the summer, before the eventual winners are announced in November.

As the UK’s premier award scheme with over 40 years of supporting excellence in the world’s only naturally sustainable material, the not-for-profit competition is the flagship event Nacho Marti’s, Expandable Surface System created an eye-catching centrepiece. This unmissable piece of timber design formed the visitor lounge and at the entrance to the exhibition. Conceived and designed by the ground-breaking agency, Atmos - Worldscape Creative Installations will provide a platform for the winners of this year’s Timber Innovation Awards to share their stories.

The Wood Awards are only possible by the major sponsorship of the American Hardwood Export Council (AHEC), the Carpenters’ Company, TRADA and Wood for Good. Other sponsors include American Softwoods, BREE and the Forestry Commissions. New from 2014 is the continued sponsorship of the Programme for the Endorsement of Forest Certification (PEFC) and the Malaysian Timber Council (MTC) and the British Woodworking Federation (BWF) as a supporter. The Wood Awards Gold Award is sponsored by Arnold Federation (BWF) as a supporter. The Wood Awards Gold Award is sponsored by Arnold.

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Ancon Extends Its Range Of Insulated Balcony Connectors

Construction fixings specialist, ANCON, has extended its existing balcony connector range to include three new thermally insulated systems designed to minimise the effects of cold bridging at concrete to concrete, concrete to steel and steel to steel interfaces.

The cold bridge formed by direct-fix balconies or where a continuous reinforced concrete slab is used can seriously affect a building’s thermal performance and lead to problems with condensation and mould growth. The new Ancon systems, called Jotec, STC and STS, are designed to provide an effective thermal break whilst maintaining full structural integrity by transferring moment, shear, tension and compression forces at the joint.

Comprising stainless steel reinforcement and mineral wool insulation, the new high performance Ancon Jotec system provides maximum corrosion protection and integral fire resistance. It is suitable for low energy concrete to concrete applications, including heavily congested or stepped floor slabs.

For steel balconies, the new range provides solutions for both concrete and steel structures where Ancon’s fabricated structural steel components are CE-marked, demonstrating legal compliance, design to EN 1993 (Eurocode 3) and manufacture at facilities externally audited by an approved body.

The Ancon STC (Steel to Concrete) system is a two-part assembly, comprising a cast-iron anchorage and a post fixed bracket with integral thermal pad, reducing the risk of damage to the units on site during the construction process. For steel to steel applications, the Ancon STS system is a single, compact, easy to handle unit wrapped in thermally efficient polyestrene insulation. Both systems are manufactured to order by Ancon at its UK production facilities and provide the flexibility in design to suit the exact requirements of the balcony and eliminate clashes with cladding.

Ancon Marketing Manager, Annabelle Wilson, says, “We have extended our connector range as balconies are an increasingly popular feature in the residential sector, where designers are keen to add style and aesthetic appeal to high density occupancies. Energy efficient construction is a key focus for our in-house product development team. In addition to these new insulated connectors, Ancon has recently extended its award winning range of low thermal conductivity wall ties and introduced an innovative helical fixing for insulated plasterboard.”

Details of the full Ancon range of balcony connectors, including the established Isolan system, used successfully throughout Europe for many years, are included in the new 32-page technical brochure ‘Thermally Insulated Balcony Connectors for the Construction Industry’, available to download from www.ancon.co.uk or in hard copy on request.

Expanded Range Of Colour Options For Yorkon Modular Buildings Offering Even Greater Design Flexibility

The Portakabin Group has expanded the range of colours and design possibilities now available for buildings constructed using its Yorkon off-site solutions, giving architects, contractors and customers even greater aesthetic flexibility.

The latest building system available for Yorkon projects has been engineered to remove the need for external columns, creating seamless, flush façades. The palette of colours for the steel envelope has also been expanded from 20 to 55, giving architects and designers genuine creative freedom without having to specify secondary cladding.

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Panoramic Views Of London From Paramount House

For many years 162-170 Wardour Street was the London headquarters of Paramount Studios, located at the heart of the capital’s music, film and advertising industry. However, in 2011 this seven-storey building within Soho’s Conservation Area, was acquired by award winning residential developer, Amazon Property, with the intention of converting the 21,500 sq ft mixed-use office/retail space into residential apartments, making this one of the capital’s most sought after office-to-residential conversions.

The internal reconfiguration and refurbishment has created 15 high specification apartments, including a luxury penthouse with panoramic views of the London skyline. Many of the original attractive features of this 1930’s designed building have been retained, including the metal casement frames with lead light glazing and timber sash windows. However, as with any city centre location offering a 24:7 society, noise has to be effectively contained if a peaceful environment is to be achieved.

A solution was found using Selectaglaze’s bespoke range of secondary windows. The frames have high performance seals and are tailor made to ensure the tightest fit. Independent acoustic tests demonstrate very significant levels of noise attenuation; typically 45dB and the glazing also provides much improved thermal insulation. This, together with the removal of draughts, leads to increased comfort and reduced energy demand.

Over 200 horizontal and vertically sliding windows were produced in a matt black finish to complement the interior design and toughened safety glass was used throughout.

The windows are fully fabricated in the factory which allows rapid installation and Selectaglaze worked closely with contractor ISG to meet a phased programme and be part of a successful and attractive development.

Founded in 1966 and a Royal Warrant Holder since 2004 Selectaglaze Ltd. has considerable experience of working in buildings of all styles including Listed and traditional. The Company produces an extensive range of literature and guidance notes covering acoustics, thermal performance and added security and offers both a technical advisory service and a RIBA approved CPD Seminar to architects and Interior Designers.

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For further information, please contact the Marketing Department on 01727 837271; e-mail: enquiries@selectaglaze.co.uk or visit the company’s comprehensive website at www.selectaglaze.co.uk

Company TV
With the new £188 million Library of Birmingham rewriting the book on library design, leading flat roof system provider Radmat Building Products have supplied a guaranteed roofing system which is set to deliver high standards of environmental performance, long term waterproofing integrity and has enabled the creation of two biodiverse green roofs and an intensive rooftop garden.

The largest public library in the UK and the largest public cultural space in Europe, the new 35,000m² Library of Birmingham replaces the old Central Library and is seen by Birmingham City Council as a flagship project for the redevelopment of the city. Designed by architects Mecanoo, and multi-discipline engineers Buro Happold, and built by Carillion, the multi-tiered roof of the library features two garden terraces which have both contributed to the BREEAM excellent rating.

Radmat Approved Contractor Prater delivered a roofing solution that is BBA Certified to last ‘the life of the building’. Consisting of two layers of Radmat PermaQuik PQ6100 Hot Melt Monolithic waterproofing membrane, root resistant Cap Sheet and ProTherm inverted roof insulation, the entire roof was electronically tested for integrity prior to the installation of aluminum powder coated cappings to the perimeter roof upstands.

Once the installation of the 7,500m² of PermaQuik PQ6100 roofing system on the roof and the ground level Podium deck was signed off by a Radmat Technical Adviser, Prater brought in specialist green roof contractor Frost Landscapes to carry out the installation of the complex intensive green roofs.

The two biodiverse green roofs, at levels 3 and 7, were created to attract local wildlife and to offer visitors a pleasant environment to enjoy all year round. With contrasting atmospheres and qualities, the green roof terrace at level 3 overlooks Centenary Square and draws inspiration from the façade design with bespoke teardrop and semi-circular planters, a paved granite terrace and seating areas as features. The planting scheme has a formal English knot garden theme incorporating evergreen hedges, aromatic plants and culinary herbs.

The theme for the planting on the level 7 terrace which overlooks the wider city, is a natural more intimate garden where winding paths take visitors through the more than 5000 plants used in the design.

“Frosts were delighted to be part of the team which delivered this landmark project, and are thrilled to see the many of the public enjoying the intimate atmosphere the landscaping provides on each of the terraces,” commented Aidan Lane, Commercial Director, Frost Landscapes.

Combining durability and flexibility with independent verification of life expectancy and a market leading guarantee the Permaquik PQ6100 Hot Melt Monolithic waterproofing system is set to deliver exceptional performance balancing of the uniquely designed structure which has set a remarkably high standard for library design.

“Birmingham City Council’s intention was to create a world class landmark civic building in Centenary Square,” commented Terry Perkins of Birmingham City Council. “With the Library of Birmingham we have achieved this. We are delighted in the way in which the project has been delivered. From the outset the project team has worked closely together with shared goals and the completed building is testimony to good communication and a non-contractual approach to delivering a major scheme.”

With Radmat’s high performance roofing solution providing weathertight protection for years to come, the Library of Birmingham looks set to not only form the catalyst for further regeneration within the city but also how future libraries are designed and perceived by the user.

www.radmat.com

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Radmat’s Permaquik Rounds Off Stunning New Library Of Birmingham
At the new £5.5 million Innovation Centre in Walsall, a champagne-coloured Carea facade has provided an eye-catching, decorative finish to the award-winning, sustainable development whilst also helping it to achieve a Very Good BREEAM rating.

Designed by BBLB Architects, and built by main contractor Willmott Dixon as part of the SCAPE framework, the 20,000 sq ft building specialises in health and social wellbeing diplomas. With state-of-the-art facilities, it provides students with a ‘real life’ healthcare learning environment.

Built using environmentally friendly and sustainable materials, the building’s external façade was completed with the application of the attractive and durable Carea Ardal cladding system.

Installed by specialist contractor Simco, the façade features 11mm thick, 1,200mm x 600mm Ardal cladding panels supplied in a Champagne colour to complement the contemporary exterior’s simple palette of materials.

The Carea cladding system offers a safe and efficient method of installation as each panel features routed grooves on the top and bottom which fit on to special horizontal rails to provide a precise and totally seamless finish.

Manufactured from cutting edge exclusive composite and comprising around 95% natural minerals – the Carea panels also offered the performance benefits required to help the building achieve the ‘Very Good’ BREEAM rating.

Modern developments are often at the forefront of design and architectural innovation. By utilising Carea’s attractive Ardal cladding at the iconic Innovation Centre, BBLB Architects has created a stylish, contemporary development that will look good for many years to come. www.carea.uk.com

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Cutting Edge Carea System Chosen At New Walsall Innovation Centre
New High Quality Henrad Towel Rails Launched

Henrad – a brand of the Ideal Stelrad Group - has come of age with the launch of four exquisite new towel rail radiators – any of which would be a stunning addition to any home – and at very reasonable prices.

Radiator have never played such an important role in the home as they do today. Not only are they highly functional – providing the heat that homes need to be comfortable and pleasing to come home to – but now, due to a number of influences, they are genuinely becoming the focal point of many rooms. As part of the décor, they are there to be seen, rather than hidden away behind the sofa.

And it’s probably fair to say that the first room in the home that benefitted from the radiator ‘growing up’ was the bathroom. It’s a couple of decades since the towel warmer radiator first crept into the bathroom. At first, just a simple ladder towel rail, usually chrome plated and capable of warming towels but not really heating the room, the idea clearly appealed and over the past twenty years – and the last five in particular - the breadth of design for towel rails has blossomed so that there are now some stunning designs available to choose from.

And they have evolved, so they genuinely warm the bathroom, shower room or wetroom in which they live. As part of the Ideal Stelrad Group, Henrad has a highly respected pedigree.

Within the current portfolio, the Compact range is unsurpassed, offering over 140 variants to meet every need. And, representing the demand for leading-edge design, the Verona, Everest Line, Alto Line and Column styles are established designer options.

Henrad has now added some stunning new products - the Arno and the Verona – towel rails – three Arno derivatives - Arno Single, Arno Double, Arno Curved and a Verona Towel Rail - to give even more choice for the home.

Whilst they all come in white as standard, there are also plenty of variants that now include 35 different colour options to further enhance your favourite rooms – they truly are now a vital part of the decor in any home and can be used to colour match or contrast your furnishing style.

When you consider that all four new rails come with a 5 year manufacturer’s warranty. They come with amazing installation flexibility – 8 tap connections and a centre connection option, they are maintenance free and available from stock.

So Henrad is still the radiator for choice, quality and guaranteed value. It’s just that now there’s even more to choose from… and a lot more pizazz!

www.henrad.co.uk

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Dorma Makes A Grand Entrance At Cambridge Shopping Centre

At the Grand Arcade shopping centre in Cambridge, the upgrade of two main customer entrances had to meet extremely high performance standards. Specified to improve internal comfort levels for customers and reduce energy costs for retailers, a series of automatic swing doors from industry leader DORMA proved the perfect solution.

With concerns about heat loss from the premises, owners University Supervision Consortium re-appointed Caudor to install two new entrances – featuring toughened glass and DORMA ED250 automatic closers to minimise energy costs. Taking just two weeks to complete – with all works completed out of hours between 1pm and 5am – the specification and installation of DORMA ED250A has helped to improve thermal performance and functionality whilst retailers' energy bills will be significantly reduced.

As part of its energy saving product features to reduce environmental impact, the DORMA ED250A is the only automatic swing door operator with integrated wind-load capabilities; it automatically recognises compensation for wind loads up to 150 N – making it the ideal solution for the busy and prestigious Grand Arcade.

The ED 250A has a long life cycle, (tested to 1,000,000 cycles), and a low noise electromechanical operator – important in a building with a heavy traffic flow, while the Wind Load Control is integral to the door's correct functioning on external doors. Suitable for doors with a weight of up to 250kg and a width of 1600mm, DORMA also provides an easy-to-install integrated door coordinator for double leaf doors.

In addition, the DORMA ED 250 is UE marked, and fully tested and compliant with multiple UK and International standards. Providing secure and reliable operation in line with the client's demands and legal responsibilities, they also offer ease of access for all building users in line with Approved Document M.

Suitable for internal and external doors, both single and double leaf, the ED 250 swing door operators are designed as part of DORMA's elegant Contur range. www.dorma.com

Enquiry 80

Luxury London Apartments Get The Roca Bathroom Treatment

A range of Roca's products, including basins, bath, water saving taps and showers, have been used to furnish bathrooms at the Sesame Apartments, an exciting new Battersea development in the heart of Battersea.

Designed by the Tollgard Design Group, the 80 Sesame Apartments boast views over the River Thames and combine innovative design with luxurious fittings.

The project also meets the Code for Sustainable Homes by incorporating a green roof, low energy rated appliances, high levels of insulation and water saving.

Each bathroom features Roca sanitaryware and accessories; including wall-hung Cala basins, with under-basin units, Gap baths, Next shower heads and accompanying shower taps, enclosures and/or bath screens plus taps, flush plates and accessories. The stylish yet simple look fits with the overall minimalist scheme of neutral contemporary floor to ceiling porcelain tiles and striking finishes throughout.

Wall hung units and the clean lines of Roca's Next shower head, tray and enclosure add to the contemporary feel of Sesame's stylish bathrooms.

Water saving is a key element to meeting the Code for Sustainable Homes, which is why Roca's Thermostats were chosen. Thermostats feature an 'Eco Disc' cartridge that provides minimum at 50% of the water flow, encouraging end users to think before they turn the tap onto full. The cartridge also has a temperature limiter, set when installing the tap, to eliminate the risk of scalding.

A large project, demanding nothing but the best in terms of style and functionality, Sesame Apartments demonstrates how Roca's design approach and quality meets the exacting standards of modern (and sustainable) developments. www.uk.roca.com

Enquiry 81

Howe Green Is At 'The Hub' Of Easy Maintenance For Nottingham Station

Howe Green's 7500 Series access covers are providing a high quality access solution at The Nottingham Hub, as part of the station's comprehensive enhancement project. An alliance of Network Rail, East Midlands Trains, Nottingham City Council and Taylor Woodrow, The Hub is designed to increase capacity, improve performance and integrate transport options serving the city.

It also incorporates the Nottingham Area Resignalling project and the NET (Nottingham Express Transit) tramway works. Over 40 of Howe Green's heavy-duty 7500 Series stainless steel access covers and frames were installed within the station building and back of house by flooring specialists DMC Contracts Ltd. The resulting network of access points will ensure that essential drainage, mechanical and electrical services running under floor can be quickly and easily reached for routine or emergency servicing.

Suitable anywhere heavy loading is required – the 7500 Series access covers can accommodate a 4 tonne pressure from a pneumatic tyre – Howe Green's access covers were ideal for the busy Hub, with its annual footfall of 8.5 million and rising. As well as being highly durable, the panels also offered the best solution for cleanliness and safety. They are double sealed to prevent dirt and grime ingress and once set into the substrate, they sit flush with their surround guarding against the risk of slips and trips.

Specially designed internal lids also enable the panels to be tiled or accept other forms of hard floor finish, to match their surround perfectly. This enabled DMC to create an uninterrupted and continuous surface of Quartzpetti Terrazzo floor tiles spanning 2000m2 within the station's south concourse and Grade II listed porte-cochere, which dates back to 1903 and features an elegant glazed roof.

With an industry reputation for excellent service, products and technical support, Howe Green has established itself as a leading producer of floor, wall and access panels over its 30-year history. The choice of Howe Green solutions for The Nottingham Hub project stands as testament to the company's ability to deliver solutions for infrastructure, which have included major tube, DLR and underground installations in the UK as well as many key destinations worldwide.

"Howe Green's covers are excellent quality which makes a big difference on site," commented Conor McNamara of DMC Group. "It’s easy to set tiles into the cover relay which helps save time and they integrate with the Terrazzo flooring very well. A minimal show edge allows us to achieve the best possible aesthetic on the surface and provide a durable solution for accessing services underneath the floor." www.howegreen.co.uk
Abandoned Building Converted Into Prestigious Office Space

90 Hills Road is a prominent standalone three-storey office building situated in the heart of the Cambridge City business district. Prior to undergoing renovation, the building had been left vacant for over a year and needed major refurbishment, with water ingress halting business operations. The brief for this project was to not only fix the failing roof but to overlay the existing asphalt covering with a high performing bituminous system that would reflect the sunlight and improve the building's aesthetic appeal. Given the building's prominent location in the heart of the Cambridge City business district, the client wanted to deliver to the client a bituminous roof of the absolute highest quality, transforming the building in terms of its appearance, performance and functionality.

RigidSystems Ziplok – The Roof On The UK’s Greenest Building?

The Living Planet Centre, WWF’s new headquarters in Woking, was designed to be at the forefront of sustainable design and construction. Designed by Hopkins Architects to show that, through the smart use of design, materials and technology, it’s possible to create a state-of-the-art building with minimal environmental impact, it is now one of the greenest buildings in the UK, with a BREEAM rating of ‘outstanding’.

An integral part of this achievement is 2,000 sq m of RigidSystems Ziplok standing seam roofing, atop the 80m long, curved timber grid shell. In a MicroZinc finish, the Ziplok was attached via RigidSystems Conogrid bar and bracket system to a timber ply deck, creating a U-value of 0.15.

To match the aesthetics of the building, the 400m wide Ziplok was specially rolled with just two ribs and no microribs to provide a clean, sleek look to the roof structure, while the MicroZinc finish on the aluminium panels replicates the appearance of a traditional zinc roof.

Willmott Dixon constructed the building, and the roofing was installed by Southern Industrial Roofing. For more information contact RigidSystems Ltd on 01905 700500, email sales@rigisystems.org. www.rigisystems.org

Enquiry 82

SE Controls Provides A Breath Of Fresh Air For Jubilee House

Indoor air quality at Jubilee House, a new £3 million energy efficient office development for the Diocese of Southwell & Nottingham, is being monitored and controlled by an advanced W2LogiQ natural ventilation system from international smoke and natural ventilation specialist, SE Controls.

The adaptive natural ventilation solution developed, installed and commissioned by SE Controls uses 26 of its innovative W2LogiQ controllers, which constantly monitor the air quality in 24 separate zones. This provides a highly versatile system that not only allows the indoor air quality and ventilation to be managed locally in each zone, but every W2LogiQ unit is also linked together as a referenced building solution.

Depending on the level of CO2 present in each zone, alongside information about temperature and humidity, each W2LogiQ controller signals a series of dedicated NVLogiQ PSU (power supply units) to automatically open windows and rooflight vents, allowing stale hot air to be replaced with cooler fresh air using the thermal stacking effect.

The sophisticated monitoring and control algorithms used in the W2LogiQ controller are designed to not only provide highly accurate indoor air quality management and ventilation, but also minimise energy losses from the building. Every compact W2LogiQ controller, which measures 100mm x 105mm, also incorporates a data logger, which allows the indoor air quality, building performance and ventilation strategy to be constantly recorded for analysis, enabling the operational parameters for each zone in Jubilee House to be tuned to meet specific environment needs.

In addition to the W2LogiQ controllers and PSUs, SE Controls also provided 50 SECO N24 40 compact chain actuators to precisely control the opening and closing of the building’s windows and rooflight vents, which are also linked to external temperature, wind and rain sensors.

In the event of rain, the system automatically closes all rooflights fully and reduces the window opening to 10%, yet authorised personnel can also adjust the individual ventilation strategy for each zone directly from the front panel of each W2LogiQ controller. A temporary over-ride facility is also available from the front panel, which allows a zone’s system to be controlled manually... www.secontrols.com

Enquiry 84
Sterrell Door Products Specified For Major Warehouse Refurbishment

An installation of 17 Sterrell doors ensures efficient loading and unloading of a range of road vehicles for one of the UK’s leading parcels carriers at the company’s newly refurbished warehouse in Park Royal, London. Supplied by Sterrell Door Products, a total of 17 doors have been installed within various loading bays of the warehouse. These include 15 Thermodor insulated sectional overhead doors plus a pair of Sterrell’s recently-launched R3450D fast-acting industrial doors. To help meet the required workflow within the warehouse, 12 of the doors are dedicated for van use whilst, of the remaining four doors, two are used to support deliveries and collection by larger trucks. www.sterrell.co.uk

The Marine Re-Opens Its Doors, With A Little Help From Nationwide Windows

Following the devastating storms that ripped through Wilnorf on Sea on Valentine’s Day, The Marine Restaurant is delighted to once again open its doors to customers, with a little help from Nationwide Windows. Fierce winds caused shingle from the beach to crash into the restaurant’s windows at such a force that they smashed the glass. Just weeks later and The Marine opened the doors of its first floor restaurant to customers. Nationwide Windows has been integral to ensuring the restaurant was not closed for any longer than necessary, supplying new tougher laminated glass.

Enquiry 86

Sikomatic ‘Green House’ Fully Protected By Sika

Sika played an important role in the construction of a carbon neutral subterranean eco dwelling in an Area of Outstanding Natural Beauty in Northumberland. This ambitious project was the brainchild of a retired couple who embarked on an adventure to build a ‘Sweat House’ in the garden of their existing home. As the site sloped three and a half metres from back to front, the dwelling was built into the hillside with large windows opening onto a small garden at the lowest point. With the main section of the building being underground, a watertight solution was a main priority in formulating the construction process. Following extensive research, the couple decided to use the BBA approved Sika Watertight Concrete system to construct the base and walls of the building, and a ‘green roof’ membrane system, chosen from Sika Sarnafil to waterproof the flat roof. The roofing membrane enabled them to fulfil another important requirement as it is designed to accommodate the need of a roof garden built on top. www.sikawatertightconcrete.co.uk

Enquiry 87

Lighting The Way

The Golborne Road Railway Bridge is an iconic Victorian iron bridge in London’s Kensington and Chelsea. Recently, its illumination has been upgraded using Roblon fibre optics and lighting fittings supplied by Light Projects. Designed and specified by Urban Eye, specialists in using light and specialist surface finishes to transform urban areas, a stunning mix of decorative and back lighting has been installed to provide a safe walk-it road and walkways. This also creates a visual spectacle when seen from all angles, while light spill and glare to the surrounding areas are minimised. The scheme was developed in conjunction with Network Rail and Kensington & Chelsea Council. Exterior mounted Roblon LED fibre optics with Brewin and points are used together with a blue Linear LED system which highlights the graceful sweeping curve of the trusses. The Beopoints are small, subtle and elegant OP48 rated surface mounted fibre optic spotlight. They are installed throughout the structure, uplifting individual trusswork grader with narrow beam angles to highlight individual architectural features. The correct lux levels were determined using Roblon’s Lux Calculator. This fibre scheme programme offers lighting designers and specifiers a free and simple method of calculating lux values for any scheme, including the correct specification of light generator and fittings together with fibre type, length and quantity. This information can then be exported as an IES file. By benefitting from the latest in LED and fibre optic technology, energy costs are minimised while the fittings offer low maintenance and long life cycle performance.

More information is available from Light Projects on 020 7231 8282 or visit www.lightprojects.co.uk or Miles Watson at Urban Eye on 020 7229 9021 or visit www.urbaneye.org.uk

Enquiry 88

Striking Refurbishment By Remmers

Located in the historic Eyn Square, the focal point of Galway, is Dunnes Stores. The Georgian facade of the building required extensive repair and refurbishment to the member which was suffering with a high degree of cracking. Repairs to the facade were carried out using Benfepr RM. This advanced cementitious repair mortar is designed to be easy to use and fast curing, which allows it to be applied and built up in several layers within a short period of time prior to application of the coating system. Finally, to protect the facade from further damage, Remmers Elastofix system was chosen for its excellent crack bridging, anti-carbonation and waterproofing abilities and to give a high degree of finish to the exterior. www.remmers.co.uk

Enquiry 90
University Challenge For Kemmlit

Kemmlit rose to meet the challenge of a highly demanding timescale to install their Cronus cubicle, vanity units and ducting over six floors of Bath College London’s student accommodation buildings. The Cronus cubicle system is versatile and flexible and can be used for either dry or wet areas. The panels are made from 10mm solid grade laminate (SGL) with a special coating to protect them against abrasion, wear and scratches.

Cronus is available in a range of colours and finishes that can be configured as a single or multiple cubicle system and can be installed into virtually any room configuration. Solid grade laminate duct panelling, urinal modesty screens and vanity units completed the scope of works over six floors of male and female washroom areas.

www.kemmlituk.com

Enquiry 64

Roofshield Used For Conversion

Roofshield has been used in the recent conversion of Waterside Maltings in Ditchingham by P J Livesey Group. Working closely with the Broads Authority planning was granted in Summer 2012 to save the historic Maltings building and convert it into 22 houses and apartments, alongside 83 new build houses.

Roofshield has unique vapour and air permeability characteristics, which allows even the most complex of pitched roofs to breathe - without the need for traditional air gaps or secondary vents. Roofshield is as easy to install as traditional roofing felt. The very low vapour resistance of 0.059m³/s.m².kg, combined with high air permeability, reduces the potential for interstitial condensation as far as possible, and does not require the use of a vapour control layer, thus giving a robust and dependable solution that can be specified with confidence.

www.proctorgroup.com

Enquiry 63

Diffused Daylighting Gives Hope

Highly insulating Kalwall® has been used for one of the most unusual non-sectarian buildings ever constructed, the Canadian Or Lady of Hope Museum in Toronto. The Malaysian influence is evident throughout the building, with the interior mainly marble and limestone to contrast with its fenestration.

Entirely under a large cantilevered canopy, the Museum is symmetrical with its major elements located along its north axis. The dramatic break of the building occurs along its central concourse where the raised organically shaped roof floods the interior with light. This is achieved by imaginative use of the design flexibility and daylighting performance of the Kalwall translucent building system.

Highly insulating Kalwall, widely used for cladding and rooflights, is designed to transmit Passive-Quality Daylighting™. This bathes the interior with natural diffused daylight while eliminating glare and shadows and creating a unique ambiance. The Museum demonstrates how the panels, manufactured in order and normally supplied flat, can also be used in a completely different way with the proprietary Kalcurve® variation.

Apart from being specified for all types of new build, Kalwall is increasingly used for the refurbishment of cladding or rooflights on aged buildings. Project and technical information are available from Structures UK, the exclusive distributor for Kalwall translucent daylight building systems for England, Wales and Northern Ireland and a leading supplier, fabricator and installer of glass curtain walling, windows, glass atria, windows and other architectural glass building products. Case studies and technical information are available from Structures UK Ltd, Tel: 01233 501 504 or visit www.structures-uk.com/kalwall

Enquiry 65

Sika Flooring Solution Is A Winner At New Sports Pavilion

In a busy sports environment where hygiene, durability and high performance is paramount, a series of market-leading solutions from global building products manufacturer, Sika, have played their part in the creation of hard wearing and resilient floors for a new £1 million Sports Pavilion in Cambridge.

Replacing an outdated 1930’s building, the new pavilion at Hills Road Sixth Form College has been designed to provide modern changing facilities for rugby, football and cricket teams, together with official’s accommodation and a groundskeeper storage area. With the main contractor ISS looking for a durable, easy-to-clean and non-slip floor which is not only resistant to mechanical and chemical exposure - the Sikafloor® system proved ideal for the heavy footfall of the new sports pavilion. The specification comprised of a primer of Sikafloor®-141 followed by a Sikafloor®-243 SL in grey broadcast with anti-slip quartz aggregate. This was then topped with a layer of Sikafloor®-244 to create the final finish. A two part, coloured, epoxy resin, Sikafloor®-246 provides impressive protection against mechanical stress, abrasion, chemicals and water.

Extremely tough and durable and with a life expectancy to match, Sika’s flooring solutions are designed to fulfill all the requirements of the customer’s requirements and ensured generations of athletes at the college will stand to benefit from the facilities for years to come.

For further information on Sika’s range of products visit www.sikaconstruction.co.uk or for general enquiries including technical, on or off site support, please call 0800 1123963.

Enquiry 66

Plastic Rainwater Goods Make Their ‘Way Out’ For Attractive Aluminium Replacements

Quality, function and appearance were major factors when choosing rainwater goods to renovate Baysford Lodge, a listed property which has undergone a major transformation by owner and interior designer James Godbold. Existing plastic downpipes were replaced with Raingard XL Aluminium pipes and gutters. “In my eyes aluminium guttering was the most cost effective way of achieving a solid material and a great look,” said James. Dating back to 1830, James knew that the hopper design was something that was hugely important. “I wanted a design to fit in with the era of the lodge and give that dramatic effect. The Yeoman-Rampard Victoria G60 Hopper was able to fit the bill exactly.”

www.rainguard.co.uk

Enquiry 67

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Enquiry 66
TREND is a new collection from COMPAC Technological Quartz, the result of a strong commitment to innovation and new decorative trends. Four colours with multiple combinations and adapted to the taste of contemporary consumers make a collection where colour is not only a state of mind but rather a lifestyle. Balanced, gentle and pure, TREND is a sure bet in any kitchen, bathroom or bedroom.

compac.es