New Library at Thomas's School, London

Hugh Broughton Architects has completed the refurbishment of the library at Thomas’s London Day School, a family-run private preparatory school in Clapham, south west London.

The refurbished library is a dynamic and playful space designed to capture the imagination of pupils, teachers and parents. The light-filled, white cocooned room is animated by bold colour, bespoke soft furnishings and a range of reading zones to nurture and stimulate imaginations.

The scheme brings character and joy back into this vital learning space, transforming an unwelcoming, dark, compressed space, which was cluttered with desks, chairs and disparate items of furniture.

The design was informed by discussions with teachers and pupils at an early stage in the design process. The client’s principal ambition was to transform the existing facility into a state of the art, light-filled contemporary children’s library with inherent flexibility to respond to the needs of both current and future staff and pupils.

Situated on the ground floor of the school’s Grade II listed Victorian building, the bright white space has been achieved through a combination of white walls, white vaulted ceilings and new contemporary downlights. The space is characterised by a map of Narnia, the fictitious land in C.S. Lewis’s children’s classic, illustrated across the full width of the resin floor. This enchanting motif introduces an element of fantasy to captivate young readers.

Other design features include a royal blue alcove with curving steps, which makes a grand setting for storytelling, and oversized circular upholstered seats in bright pink and royal blue. The librarian’s desk is constructed from 875 books set within a frame made of Hi-Macs. Low-level mobile units encourage pupils to rummage through the collection of books, while quotes above bookshelves provide inspiration and direct young readers to classic authors. The existing window reveals were clad with joinery incorporating bookcases and a free-flowing, organic seating feature that forms a series of wonderfully over scaled perches for children to sit and read beneath the natural light flooding in from the south. The joinery is set against a yellow backdrop to reflect natural daylight and colour deep into the space.

Phil Ward, Headmaster of Thomas’s Clapham, said: “The transformation of what was easily the bleakest and most pessimistic area in our school to one which draws the children towards it at every opportunity, is astonishing. Hugh and his team have given us a fabulous and deeply impressive facility, and a library which blends the best of a traditional library with digital technologies and an aura of the magical, which fits perfectly with our commitment to providing the children in our school with an exciting and stimulating 21st century learning environment. We are thrilled, and enormously grateful.”

Hugh Broughton of Hugh Broughton Architects said: “The new library reflects the progressive approach to education, which is a key feature of Thomas’s. It was a real joy to work with the client team on this project, they were so enthusiastic and encouraging from start to finish. The resultant space – bright, white and animated with numerous elements of fun – is a testament to their commitment to delivering the best learning environments for their pupils.”

www.hbarchitects.co.uk

Images supplied by Carlos Dominguez
Benoy is proud to be involved in two further International Finance Square (IFS) Malls which are being developed by major Hong Kong property company The Wharf Holdings (Wharf). Set to follow the success of the already completed Chengdu IFS, Wharf has appointed Benoy to design its IFS developments in Chongqing and Changsha.

“Benoy is honoured to be entrusted by Wharf as they develop their portfolio in China. Chengdu IFS has proven to be an extremely successful collaboration between our two companies, in terms of both design and commercial viability. We are excited to continue creating architecture that speaks of its time while also developing exciting yet timeless spaces for the people of these cities,” commented Ferdinand Cheung, Benoy Director.

The new malls are located in fast-growing cities as Wharf launches and grows its commercial portfolio in China. Like Chengdu IFS which established a diverse ‘City within a city’ commercial landmark in Western China, the developments in Chongqing and Changsha will look to set a new benchmark for their catchments.

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at:first
news & announcements
Innovating With Aircrete

H+H is proud to be sponsoring ‘Homes for Britain’, the 2015 Sunday Times British Homes Awards. Launched in March by the then Housing Minister Brandon Lewis MP, this year’s awards challenge architects and designers to produce a standard house type suitable for Garden City type developments, with a focus on innovative designs which are both buildable and replicable. This year all entries must be designed using H+H aircrete blocks. The closing date for entries is 10 July but all entries need to be registered by 12 June. The winning design will be announced on the 16 October and will be built by Redrow Homes using H+H aircrete blocks and build systems. For further information on the design competition visit www.hhcellcon.co.uk/british-homes-awards-2015 or http://britishhomesawards.co.uk/2015/design-competition/ Enquiry 2

Kährs Linnea Range Receives FloorScore® Certification

Kährs has received FloorScore® IQA (indoor air quality) certification for its best-selling Linnea Range. It follows earlier certification, in 2012, for Kährs Original, Avanti and Activity Floor ranges.
FloorScore® IQA demonstrates that a flooring product has been independently certified by Scientific Certification Systems, to comply with the volatile organic compound emissions criteria of the California Section 01350 Program. Any product that meets these stringent standards contributes to good indoor air quality and can contribute to LEED 2009 and LEED V4 projects.
Kährs Linnea range includes 29 wood flooring designs, divided into three collections – Habitat, Living and Lodge.
Throughout the range, floors are offered in a variety of formats and finishes, in sustainable oak, walnut, maple, beech and cherry, many have on-trend tactile treatments, and stained lacquer or nature oil finishes. Kährs Linnea is defined by its modern, eco-construction; at just 7mm thick, it offers a real wood alternative to man-made surfaces that is durable, easy to handle, install and maintain, and a positive health choice. Please contact Kährs (UK) Ltd on 023 9245 3045, email sales@kahrs.com or visit kahrs.com Enquiry 4

STENI UK Celebrates A Half Century

The revolutionary lightweight and low maintenance reinforced polymer composite panels which use a patented production method were founded in 1965 in Norway. STENI expanded rapidly and established companies in Europe and the USA, adding to what is now the Nature range with STENI Colour panels in 1996.
Today, STENI offers panels for external rainscreen and internal applications with endless surface options - natural stone in different grades and colours; coloured, smooth surfaces in different gloss levels, and printed surfaces with unlimited individual design and decoration options.
Now owned by the Swedish firm Accent Equity Partners, STENI products are sold across the world with a unique 40-year warranty from dedicated sales companies in Norway, Sweden, Denmark, Finland, the Benelux and the UK. Enquiry 3

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at first

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a room with the view
Notes from the Comar design team...

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 high span profiles in stock = market leading delivery.

Mapei Launches Mapeguard WP Adhesive And Mapeguard WP 200

Mapei announces the launch of Mapeguard WP 200, a flexible, thin-layered waterproofing / anti fracture membrane and Mapeguard WP Adhesive, a two-component reactive adhesive to its Waterproofing and Ceramic product lines. Mapeguard WP 200 is an alkali-resistant, waterproofing and decoupling membrane which is best suited for use under ceramic and natural stone tiles. It is specially formulated to be used in wet and damp areas.

Mapeguard WP Adhesive is a rapid-drying elastic cementitious adhesive, ideal for bonding Mapeguard sealing tape to Mapeguard WP200 membrane. It can be applied on walls and floors ensuring a watertight seal. Mapeguard WP 200 is available in 5 and 30m length rolls. The Mapeguard products can be used as part of a complete waterproofing system in compliance with Etag 022. www.comar.co.uk

Enquiry 7

Sika Sarnafil Showcases Commitment To Contractors

As part of its on-going commitment to training and innovation within the roofing industry, Sika Sarnafil recently hosted three launch events for contractors, showcasing its latest product launches and future developments.

Hosted at Sika’s Centre for Excellence for Liquid Applied Membranes in Preston, the Centre for Excellence for Single-ply Membranes in Welwyn Garden City and Dunblane, contractors from across the UK took part in interactive workshops hosted by the Sika Sarnafil applications team. Live demonstrations of the new Sarnafil Self Adhered Membrane and a soon-to-be-released Spray Applied Adhesive were followed by a preview of the new Sarnamatic 681 welding machine.

Product manager, Dean Grady, then gave attendees an up-close look at the Solaroof system, a new solar panel mount package that offers a full system guarantee.

Majer developments in BIM, especially in the new build arena, prompted Sika Sarnafil to invite Jill Guthrie from BIM Technologies to join the presentation team. Highlighting the benefits of the process, Jill explained how contractors can expect the technology to impact the way they work in the future. The events are part of a wider programme of training courses and support offered across the Sika roofing brands, with over 5,000 fitters and contractors having received a Sika Sarnafil accreditation alone.

Contractors were also gifted with a ‘Sarnie stick’ and encouraged to take selfies with a project that they are proud of in the background, to be entered into a Twitter competition. For more information on Sika Sarnafil’s products and services, call 01707 394444, email sarnafilroofing@uk.sika.com or visit www.sarnafil.co.uk

Enquiry 9

Lighter Weight And Better Thermal Conductivity For H+H

H+H has lowered the density of its High Strength and Super Strength Grade Cexcon Blocks from 750 kg/m3 to 700 kg/m3. This has led to an improvement in thermal conductivity and lighter weight blocks. The change has been accredited by the British Board of Agrément (BBA) in a new certificate issued to the manufacturer. The thermal conductivity of the blocks is now 0.18 W/mK, down from 0.21, bringing about greater thermal performance, enabling U-Values to be reduced further and diminishing heat loss at junctions.

www.hh趁icon.co.uk

Enquiry 8

Johnson & Starley Announces 2015 Training Course Dates

Johnson & Starley has announced dates for 2015 Training Programme for installers. Warm Air Heating courses include a one day familiarisation session on the new WarmCar range of Condensing Warm Air Heaters and a Heater Replacement/Upgrade course, Fault Finding and Servicing.

Courses take place at Head Office Training Centre in Northampton, dates are: 17th June - Replacement and Upgrade, 24th June - WarmCar, 8th July - Fault Finding & Servicing.

Please contact Charlotte Shirley 01604 762881 charlotte.shirley@johnsonandstarley.co.uk

www.johnsonandstarley.co.uk

Enquiry 10
Specifying Hardwood Timber Entrance Doors – What should you know?

Choosing the right hardwood for a front door is tricky because you don’t have to just think about the colours and what suits the exterior or interior of the house, you also have to consider the outlook, weathering, performance and cost. Materials used on the outside of the building like the windows, cladding, rendering, zinc, copper and stone are also closely related to the door choice.

The question of durability is always crucial. For instance, with American Black Walnut it is recommended that an overhang is in situ, since the characteristics of this wood mean it is more likely to stain black if it isn’t maintained properly. And let’s face it, not all of us will keep up with the maintenance of our doors as much as we’d like to.

Another concern is extreme weathering. Is your door facing the sea, south facing, or prone to getting a lot of sun and rain? Some hardwoods are better suited to these extreme conditions. European Oak and Iroko, for instance, perform very well and can withstand some tough weathering.

It can be essential to know whether the house has cladding – which narrows the decision down slightly but still isn’t straightforward. It’s quite popular to have Western Red Cedar cladding, but then you have to think about whether or not you are going to allow it to silver. Treated WRC cladding will match a Western Red Cedar door as long as it is finished in the same way; however, WRC is a soft hardwood and therefore can mark easily when used for a front door. The closest match to it is Iroko and therefore a good choice because of its weathering qualities and undoubtedly its cost. European Oak or even Wenge. This is also a very popular way to provide contrast and attract attention to an entrance.

Furthermore, the style of house and colour of brick or render can influence the choice of wood to a large degree. The more red a brick the less likely you would match it to Iroko, for instance, which is quite red itself. While or cream render lends itself to nearly any colour wood but then on the other hand if the windows are a different colour like grey or green you’d need to consider this when choosing the wood too. A very popular colour-way at the moment is white render with dark grey windows and a European Oak door.

Often people are afraid of hardwood because of the maintenance involved. This is certainly valid but if you know the facts it’s easier to make a decision. For such a natural product, wood is very versatile and you’d be surprised at its ability to blend in with various colours, textures, and finishes and withstand weathering. Understanding security (despite the fact that you may not always specify this detail) is imperative. The main idea is to delay someone getting into a house for as long as possible – the longer they spend trying then it’s more likely they will be caught in the act. Even though studies show that burglars are most likely to enter through a window (depending on where the house is), making sure the front door looks impenetrable is key.

This information applies to nearly all the external doors in a house and not just the front door. As long as the product installed meets one or more of these requirements, you should be as safe as possible. Obviously having a burglar alarm is essential too, but most of the time, the burglar would need to get in first before the alarm goes off. If noise isn’t an issue and the burglar goes straight for a window, then the alarm would probably be more effective.

www.urbanfront.co.uk

Enquiry 11

Trespa Launches New CPD Seminar For Rainscreen Cladding

A new RIBA approved CPD seminar titled “Inspiration by Design”, has been launched by Trespa, the manufacturer and supplier of high performance panels for exterior cladding and decorative façades.

The seminar examines how building physics such as heat and moisture transfer, thermal bridging and heat conductivity can impact on traditional construction methods. It explores how more energy efficient and sustainable buildings can be created through the use of ventilated rainscreen cladding on a physical and visual level.

This seminar is the second in Trespa’s CPD series and follows on from the “Principles of Rainscreen” where Trespa brings an understanding of how ventilated rainscreen cladding works, including the benefits, critical success and factors leading to confidence in specification. www.trespa.com

Enquiry 12

www.caesarstone.co.uk

Comprised of 93% natural quartz – one of nature’s strongest minerals, Caesarstone quartz surfaces offer the ultimate combination of form and function, allowing for a durable, practical surfacing material with its stain, scratch, and non-porous properties.

www.caesarstone.co.uk

Enquiry 13
at:length
sounding board
WRIGHTSTYLE, WIND LOADING AND GLASS TECHNOLOGIES

www.wrightstyle.co.uk

Wrightstyle is a specialist steel and aluminium glazing company and supplies its four-rated systems internationally. Jane Embury, the company’s marketing director, looks at the recent history of wind loading and glazing systems. Over the past few months, extreme weather events have battered countries in the Caribbean and Asia, belying the resilience of both local communities and the infrastructure on which they rely.

The ferocity of those typhoons and hurricanes are in stark contrast to the innocence of their names. In the Western Pacific, recent names have included Ruth, Betty, Peg and Dot. In The Eastern Pacific, Celia, Marie and Odile; and in the Atlantic, Janet, Opal, Isaias and Katrina. In the Pacific, the responsibility for naming tropical storms is coordinated through the World Meteorology Organization (WMO). Fourteen regional governments submit 10 names each, and the WMO Regional Specialized Meteorological Center (RSMC) in Tokyo is then responsible for naming each storm.

It’s a little different in the Atlantic. Tropical storms that reach a wind speed of 33mph are given a name while, if it reaches 74mph, it is redefined as a hurricane. Its breaking point depends on how it reacts to each stress. The standards used to test wind and glass and framing systems to keep the glazed element intact and in its frame. Simplicity, in high winds, the exposed side of the glass is subjected to compressive stresses, while the opposite side is subjected to tensile stress. Glass has a high resistance to the former, and a lower resistance to the latter. Its breaking point depends on how it reacts to each stress. The standards used to test wind loading in the UK are BS 6399-1:2008, which determine glass stress to uniform lateral loads. However, any calculation is complicated by the final glass type and thickness and will depend on a range of other factors such as windborne debris, safety glazing requirements – such as fire protection – and other site-specific concerns. In the UK, BS 6439 and BS 6262 apply, with further guidance supplied by the Centre for Window and Glazing Technology (CWCT), although the American standard is also often used in the Middle East and parts of Asia, usually when American architects are involved in building design, or when US corporations are designing office buildings to US domestic standards. These standards allow for a calculation of the uniform load resistance that a glazing system is able to sustain without breaking, taking into consideration glass dimensions, its type and thickness, and centre of glass deflection. They are standards that Wrightstyle use when advising customers on glass types and framing systems, both in the UK and internationally. For example, we recently supplied roof glazing to a major banking group in Hong Kong, for a corporate-crucial project of immense importance. The glass and framing systems had to provide fire resistance, bomb resistance – and, in a typhoon zone, have high wind load characteristics.

Nearer to home, we also supplied to Ocean Terminal in Edinburgh. While Scotland is not in a tropical storm zone, the glass spans used in the retail and leisure complex were so large – and therefore so heavy – that wind loading became a significant factor in Wrightstyle systems being chosen. We were able to combine wind loading with other critical safety factors in a non-intrusive steel frame. One current debate in meteorological circles is how climate change is likely to impact on the strength and frequency of tropical storms. In general, one theory is that by 2100, storm frequency will increase, with a main influence on wind movement is temperature difference between the earth’s equator and poles. Later this year, Danny, Grace, or Odette may well be in the news, for all the wrong reasons. Using those calculations, a recent study from the University of Texas-Austin suggested a continuing fall in average wind speed of up to 12% in some northern latitudes. That’s on top of the 1%-2% that wind speed is estimated to have fallen within the past 30 years – notwithstanding Andrew, Katrina and all the other tropical storms.

However, a similar study at the University of California-Santa Cruz found that climate change might actually cause a relative increase. For those who live in tropical storm regions the argument may seem academic – but for those who live in the North it is not. The fact that hurricanes and typhoons are on the increase is both running costs and reduce embedded carbon, a vital consideration for businesses looking to meet the demands of CSR requirements and current and future legislation.

By using innovative energy saving Rinnai technology, that really does embody all the principles of intelligence by design, building owners will slash both running costs and reduce embedded carbon, a vital consideration for businesses looking to meet the demands of CSR requirements and current and future legislation.

*Tested and certified by Teknigas to EN 26.

Author: Chris Goggin - Rinnai

One primary advance has been in understanding wind loading – the amount of wind that architectural glass is able to withstand. The physics of wind loading is based on a large number of variables such as the building’s height, its relationship to surrounding buildings, and the size of the glass. Simplistically, in high winds, the exposed side of the glass is subjected to compressive stresses, while the opposite side is subjected to tensile stress. Glass has a high resistance to the former, and a lower resistance to the latter. Its breaking point depends on how it reacts to each stress. The standards used to measure wind load in the UK are BS 6399-1:2008, which determine glass stress to uniform lateral loads. However, any calculation is complicated by the final glass type and thickness and will depend on a range of other factors such as windborne debris, safety glazing requirements – such as fire protection – and other site-specific concerns. In the UK, BS 6399 and BS 6262 apply, with further guidance supplied by the Centre for Window and Glazing Technology (CWCT), although the American standard is also often used in the Middle East and parts of Asia, usually when American architects are involved in building design, or when US corporations are designing office buildings to US domestic standards. These standards allow for a calculation of the uniform load resistance that a glazing system is able to sustain without breaking, taking into consideration glass dimensions, its type and thickness, and centre of glass deflection. They are standards that Wrightstyle use when advising customers on glass types and framing systems, both in the UK and internationally. For example, we recently supplied roof glazing to a major banking group in Hong Kong, for a corporate-crucial project of immense importance. The glass and framing systems had to provide fire resistance, bomb resistance – and, in a typhoon zone, have high wind load characteristics.

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Author: Jane Embury, Marketing Director - Wrightstyle

In short, a Rinnai unit used as a gas booster for solar systems maximises solar gains, as it only consumes energy when the renewables gain cannot achieve the desired temperature. The rest of the time the unit is inactive. It is also the only booster that ensures never ending hot water – no matter the demand so people can shower or bath any time of the day or night.

The appliance will maximise performance and minimise energy input at this point as it will only apply the precise amount of energy to boost the temperature taking full advantage of the turn down ratio discussed earlier.

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Author: Chris Goggin - Rinnai

Rinnal has developed its own BMS Gateway interface for the award winning Infinity condensing range offering the prospect of higher energy efficiencies and ultimate control in large buildings, including multi-tenanted buildings.

Hot water expert Rinnal makes more than 12 million gas appliances every year; all are ISO 9001 and ISO 14001 certified. These products are manufactured to reduce the negative impact on the environment with market leading designs that have lower greenhouse emissions.

Major investment in the new generation Rinnal Infinity continues flow hot water system has also resulted in the best energy efficiency figures in the industry due to Rinnal’s new low NOx burner technology. All are backed with extensive warranties and after sales service teams. Rinnal also provides a range of solar hot water systems that boost market-leading efficiencies.

Rinnal releases-ready heavy duty condensing units are engineered specifically to guarantee the highest efficiencies and therefore the lowest running costs of any commercial water heater. For example, Rinnal Infinity condensing HDC1200 internal and external models show an impressive energy performance of 107 per cent net efficiency while the larger Rinnal HDC1500 models turn in 100 per cent net efficiency*. In short, a Rinnai unit used as a gas booster for solar systems maximises solar gains, as it only consumes energy when the renewables gain cannot achieve the desired temperature. The rest of the time the unit is inactive. It is also the only booster that ensures never ending hot water – no matter the demand so people can shower or bath any time of the day or night.

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EXPLAINING THE SECURITY STANDARDS

www.aluprof.eu

Crime is on the decrease. The latest figures from the Crime Survey for England and Wales (CSEW) showed that there were an estimated 6.9 million incidents of crime against households and resident adults in England and Wales in 2014. This is a 7% decrease compared with the previous year’s survey, and the lowest estimate since the CSEW began in 1981.

The results are certainly due in part to better policing and better crime intelligence within the police force, but as important, it is the hardware we specify and how it is integrated with our window and door products that make a really big difference. Some are the days when a simple catch on our patio doors was deemed sufficient when actually a garden spade was all that was necessary to lift out the sliding panel. Today, we view multipoint locks and 5 lever security cylinders as commonplace. So the standards over the years have evolved, but what security standards are relevant today?

Most of us will know of ‘PAS 24’ or ‘Secured by Design’ (SBD), but there are further standards which may become relevant when aspects of security are discussed with clients. PAS 24: 2012 - ‘Enhanced security performance requirements for doors and windows in the UK’. PAS 24: 2012:2011 - ‘Pedestrian doorsets, windows, curtain walling, grilles and shutters. Burglar resistance. Requirements and classification’ is a European standard which follows a similar methodology.

Other security standards include the ‘Red Book’ LPS1175 and BS EN 1627. The LPCB (Loss Prevention Certification Board) have been running the LPS1175 standard for some time and it is now in its 7th issue. BS EN 1627:2011 - ‘Doorsets, windows, curtain walling, grilles and shutters. Burglar resistance. Requirements and classification’ is a European standard which follows a similar methodology.

Other schemes for enhanced security window and doorset products are available, for example Q-Mark, Certisecure and Kitemark, which certify PAS 24 or with the alternative standards listed in AD Q. Other schemes typical cover factory production control, documentation and test/assessment evidence, with resultant certification specific to clearly defined materials and components.

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For physical security Aluprof can offer products that an RC4 class as the highest achieve by a systems company in BS EN 1627. Aluprof also carry the Q-mark as 3rd party accreditation for security installations in the UK. Blast resistance can also be accommodated in window, door and curtain wall designs, as well as ballistic resistance, something that is being specified on a more regular basis for the likes of secure premises such as data centres and gate houses.

With our UK head office and large distribution centre in Altrincham, Cheshire, Aluprof systems increasingly being specified on a wide range of residential and commercial projects across the UK. Systems are designed, fabricated and installed by selected, specially trained companies, to ensure each fabricated product meets Aluprof’s exacting standards.

Further information is available on our company’s website at www.aluprof.eu and specialist advice is available directly from Aluprof on 0161 941 4000.
DAYLIGHT MODELLING

www.structure-uk.com/kalwall

Architectural Journalist Gideon Sykes looks at the latest advances in daylight modelling and how it can help architects and specifiers determine the correct lux levels for their projects. Daylighting is the art and science of managing natural light to minimise the use of artificial lighting, reduce carbon emissions and positively affect the performance, mood and well-being of people occupying a particular space. Designing, predicting and planning for the impact of daylighting in a space is often misunderstood. Daylight modelling removes the design mystery and determines the daylight requirements for any building.

It is not a new science but one which is increasingly important as reduced energy consumption is a continuing major consideration - as well as statutory requirements (such as European workplace directives) and personal well-being. Many companies offer daylight modelling services and a few, such as Kalwall, offer them free of charge when being considered for projects.

Daylight Modelling as part of the design

It’s often a mistake not to use daylight modelling as part of the original concept or design. Consequently, it is beneficial that this service is used early to help achieve the best possible results for the client and to form part of the overall building strategy and goals.

Daylight modelling can help achieve an exact brief from the client - for example the lux level requirement or to address concerns about solar heat gain. It can help quantify daylight transmitting products, determine optimal light transmission and help with positioning on a building to prevent glare issues and provide interior lux levels.

The reports can be looked at from a cost point of view and recommendations made depending on the results. A good example of this is for Value Engineering (VE) where daylight modelling example may show that windows can be reduced in size to save money yet still achieve the desired lux levels.

The report can include any of the following calculations:

1. Lux Levels
2. The location of light transmitting materials
3. The required transmission level of the light transmitting materials
4. Glare analyses purposes

Daylight Modelling software can help achieve an exact brief from the client - for example the lux level requirement or to address concerns about solar heat gain. It can help quantify daylight transmitting products, determine optimal light transmission and help with positioning on a building to prevent glare issues and provide interior lux levels.

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The report can include any of the following calculations:

Lux Levels

Lux is equal to one lumen per square metre. In photometry, this is used as a measure of the intensity, as perceived by the human eye, of light that hits or passes through a surface. For example, sports halls and classrooms would be expected to have lux levels of between 300-400.

Radiance Illuminance:

Radiance Illuminance (measurement of light level) is a snapshot of the ambient lux level (light) at any given time. This tool calculates how effective is daylight penetration at any time of the day or on any day in the year.

Daylight Autonomy:

Daylight autonomy (DA) is the percentage of the time-in-use that a certain user-defined lux threshold is reached only through the use of daylight. DA is usually given as an annual value but seasonal, monthly and daily calculations can be made. It is the ideal way to achieve optimum natural daylighting conditions for the occupants, predicting when electric lighting may be required and thereby helping to reduce the cost of energy.

Glare Pattern analysis:

This tool calculates luminance (measurement of glare) within a space. It is used to analyse direct glare or reflected light, such as in sports halls and swimming pools, where it is important to keep balanced light within a space to protect athletes from high contrast light ratios. For example, the graphic below shows direct glare coming through the windows into a swimming pool - excessive lux levels required together with building elevations, floor plans and sections.

One of the project’s stunning features is the way in which Kalwall has been used to allow and control the interior daylight, remove glare and shadows yet maintain light levels and minimal solar heat gain. This was achieved using daylighting solutions.

The Redgrave Sports Centre in Great Marlow is a new sports complex comprising multi-use hall, fitness suite and dance studio. Due to its location, designers PTAL Architects were concerned about the potential issues with lux levels so they commissioned a free daylight modelling report from Kalwall.

The daylight modelling team ran the tests and observed issues with the existing light transmission specifications - especially around the autumn equinox with the low sun position on the South east corner. Normally the canopy roof would reduce the direct sunlight but throughout the autumn months the sun would be lower thereby causing undesirable lux levels.

The daylight modelling report further directed the design team to a lower light transmission at 9%. As a result, it was decided to install Kalwall clerestory daylighting around the three sides of the hall as recommended by the study. The added advantage of continuous clerestory daylighting solves any potential light ratio imbalances.

Author: Gideon Sykes, Architectural Journalist

Project demonstrates how the panels, manufactured to order and normally supplied flat, can also be curved by using with the proprietary Kalcurves® variation.

The Redgrave Sports Centre

Harper Adams Academy

The Redgrave Sports Centre

[Image of Harper Adams Academy]

Michael Hyde architects. Here, the translucent panels have been designed to supply flat, can also be curved by using with the proprietary Kalcurve® variation. It also takes into account proposed internal finishes, which could influence reflectance, the positions of other windows and any external influences, such as tall adjacent buildings or trees. With this information, the team can look at an individual room or at the overall situation and design the most favourable daylighting solutions.

Harper Adams Academy

A good example of daylight modelling in practice was when Kalwall was specified for the new Weston building at Harper Adams University designed by Michael Hyde architects. Here, the translucent panels have been designed to follow the curve of the laminated timber structure.

The process:

Daylight Modelling is the way to calculate the most effective daylighting for any type of building. It is calculated using five years’ worth of real world weather files at the exact location of the building as well as information on day, time, position and weather patterns.

In addition, a daylight modelling team will undertake this service using data provided by the architect or client. This comprises an indication of light levels required together with building elevations, floor plans and sections. It also takes into account proposed internal finishes, which could influence energy consumption is a continuing major consideration - as well as statutory requirements (such as European workplace directives) and personal well-being. Many companies offer daylight modelling services and a few, such as Kalwall, offer them free of charge when being considered for projects.
Everbuild – A Sika Company Expands Their Powdered Tile Adhesive Range

Everbuild – A Sika Company are thrilled to be expanding their array of powdered tile adhesives by introducing four new products to the popular range.

The key product within the new range is Lightweight Extra Floor and Wall Tile Adhesive, a multi-purpose product created from a unique lightweight formula which can be utilised as a thin, 1mm or pourable adhesive depending on how much the product is diluted whilst still retaining its superb quality and performance. Its high means one 15kg bag can cover the same area as a standard 25kg bag. This product is also dust reduced and made from an eco-friendly formula containing approx. 50% sustainable raw-materials.

Also within the range is Standard Set Tile Adhesive, a cement based wall and floor tile adhesive with excellent adhesion and non-slip properties, formulated specifically to give a longer open and working time. Large Format Tile Adhesive is a synthetic resin-modified thin bed adhesive that is specifically formulated for binding large format ceramic, vitrified, porcelain and stone tiles to walls and some floors and finally a PTB Adhesive which is a pourable thick bed adhesive for bonding large format tiles to floors in highly loaded areas.

These four exciting new powdered tile adhesives are packaged in 3kg, 5kg and 15kg units, depending on the project’s needs. www.flowcrete.co.uk

LG Hausys Flooring Range For A Safer And More Hygienic Environment

The LG brand is one of the most powerful and fastest growing brands in the world. In the UK, David Clouting Ltd is LG Hausys largest distributor of surface materials including an innovative range of vinyl floor coverings for the healthcare sector.

LG Hausys have heavily invested in technology to create a superb range of floor coverings specifically designed to work in demanding healthcare environments such as hospitals, doctor’s surgeries or dental practices. Offering excellent sound absorbing properties for a quieter environment, an antibacterial function for high levels of cleanliness and hygiene, design flexibility, good slip resistance, durability and wear resistance, all LG Hausys flooring products are easy to clean, maintain and install www.davidclouting.co.uk

New Primaporcelain - The Maintenance-Free Flooring Solution For Indoor And Outdoor Living

Introducing the perfect design solution – maintenance-free PrimaPorcelain flooring, the stylish alternative to indoor floor tiles and outdoor natural stone paving or flagstones from Greensquares, the UK’s outdoor living experts.

PrimaPorcelain is stain, scratch and slip resistant; a wipe clean will leave tiles and paving like new. Even grease, oils and red wine spillages are easily and quickly removed. PrimaPorcelain’s stylish 1mm specialist indoor tiles are complemented by equally good looking, hard-working, textured 2cm outdoor paving, where added grip factor helps prevent slipping and promotes use whatever the weather. They can be skillfully accommodated in any new builds, new extensions, open

Howe Green Launches New Mobile Friendly Website

Howe Green, the UK’s leading access cover manufacturer, has announced the launch of its new website. The site offers a range of new eye-catching features and user-friendly functions to deliver the best experience to mobile visitors.

Developed to cater for increasing volumes of website traffic from mobile devices, the new site was launched ahead of Google’s latest algorithm, designed to reward mobile friendly pages. Howe Green’s responsive website enables visitors working away from their desks to obtain the information they want via a homepage slider, seamlessly delivering the most important content.

Specifications and technical data are readily accessible and new features include fully enabled search functions, easy-to-sift content, intuitive contact forms and a quick quote builder. Visit the new site at Howegreen.com

Howe Green is a leading manufacturer of access covers for domestic and commercial applications. www.howegreen.com
Lightweight Roof Contributions To Excellence Award Nomination

A lightweight steel roof installed by Metrotile UK on a leisure facility in Wiltshire has been contributed to a sustainable project which has been nominated for a regional Building Excellence Awards 2015. The new building on the PGL campus in Liddington near Swindon has been nominated for the South West LABC Building Excellence Awards 2015, thanks to its sustainability credentials which include the Metrotile roof. Regional winners are automatically shortlisted for the LABC Grand Finals, which are held in London in the autumn.

FAKRO Light Tunnel Has No Roof Dome

Light tunnels have proved a great way to bring natural light to dark or windowless areas. The new FAKRO SF light tunnel takes a fresh design approach as it uses a roof window profile rather than a dome, making it a totally unobtrusive feature. Its mirrors and light ducting are highly efficient, giving 98% light transference while the integrated flashing has a self-adhesive strip at its base to aid installation over profilled tiles. Options are available with flexible and rigid ducting and products come complete with an installation kit.

Jet Cox Offers A 'Baker's Dozen' Of Automatic Smoke Vents

Britain’s most famous fire – which engulfed the capital in 1666 – reportedly started in a baker’s shop in Pudding Lane and resulted in the first regulations on building construction to try and prevent future catastrophes. By coincidence the selection of “Smoke and Heat Exhaust Vent Systems,” or smoke vents offered by Jet Cox Limited extends to 13 sizes all of which are fully compliant with the latest CE EN 12102-2 Certification.

In fact the Jet Cox Finelit 165 24V/48V has been developed to provide automatic smoke extract in the event of any type of configuration and thereby create a smoke free layer above the floor by removing both smoke particle and any potentially life threatening combustion gases. The Finelit 165 models can be activated by a dedicated smoke alarm or a remote third party fire detection system and are fully compatible with any modern building management system. Crucially the Finelit 165 is available with either a 24 volt or 48 volt control panel with battery back-up in case of mains power failure and there is the further option of manual override using switches close to the unit.

Such capabilities are crucially important as smoke and noxious fumes are the main cause of fatalities in a fire disorientating people and asphyxiating them in minutes. Installing adequate smoke ventilation not only saves lives by facilitating the evacuation, but also makes it easier for the emergency services to gain access, to assist and tackle the fire. This has the additional benefit of reducing damage to the building fabric or property itself, both from the flames, and smoke damage, which rapidly spreads far beyond the seat of the blaze.

The size options extend from 1000mm x 1500mm up to 1500mm x 2500mm; all operated by a single, galvanized steel mechanism. They open to an angle of 165 degrees and can be specified with either clear or obscure polycarbonate glazing; while there is the further option of manual override using switches close to the unit.

Made And Tested In Germany- In order to provide an optimum of customer service, the expansive range of ebios-fire® models comprises both standard and made to measure built-in fireplace models in almost any thinkable layout. Great versatility, highest product safety and outstanding German quality are key values at Spartherm’s production facilities. all ebios-fire® models are originally designed, crafted and tested by passionate, skilled craftsmen. Test certificates issued by TÜV Germany further underline the outstanding safety of ebios-fire® bioethanol fires, which feature a wide choice of manual and automatic bioethanol burners.


The German premium manufacturer of firing technology Spartherm proudly presents an exclusive range of bioethanol fireplaces branded ebios-fire® which are now also made available for the discerning customer in Great Britain.

Bauer 'Revolutionaries’ Cycle 190 Miles For Charity

On the 16th-17th May 2015 a group of 45 individuals of all cycling abilities took part in the Mille London Revolution - the largest multi-day sportive in the UK.

The group of cycling enthusiasts, consisting of staff and business partners from roofing manufacturer Bauer, (known as the Bauer Cycle Revolutionaries) embarked on the iconic 190 mile loop around London over two days. The driving force and motivation behind this team challenge was to raise £10,000 for three worthwhile charities: Breakthrough Breast Cancer, Prostate Cancer UK and CRASH – the construction industry's charity for homeless people.

At the time of completing the two day event, Bauer had actually managed to raise in excess of £17,000, emphatically surpassing their original goal.

A Burning Passion For Fire

The German premium manufacturer of firing technology Spartherm proudly presents an exclusive range of bioethanol fireplaces branded ebios-fire® which are now also made available for the discerning customer in Great Britain.

Specifying A Washroom Less Ordinary

Innovative washroom manufacturer, Washroom Washroom, is proud to offer a completely bespoke design service and unique range of high specification flexible design solutions encapsulated by its new Iconica Collection.

Washroom Washroom director, Trevor Bowers, explains how commercial sector clients’ increasing demand for bespoke and unique washroom design was the catalyst for the creation of the Iconica Collection.

Case Study – 71 Queen Victoria Street, London

Based in the heart of the City on Queen Victoria Street, the building has been extensively remodeled to a design by SPPARC Architecture. The works managed and administered by Mellish and Harding Building Consultancy with Bouguen UK as the main contractor included the addition of an extra floor of offices at roof level and now provides high specification Grade A office accommodation.

Working closely with the design team, Washroom developed the design from concept drawings and, following off site manufacture, then installed the bespoke high specification washroom areas on all levels of the building together with shower facilities in the basement designed for use by office staff.

Washroom used its full height Alto WC cubicles, which can be manufactured in a range of colours and finishes, to provide users with complete privacy as well as creating the home-from-home feel. The cubicle doors were finished in the incredibly durable Page Lacquer coating, which provided a high gloss finish, to create a unique and stylish space. Any future wear and tear can be repaired and re-polished in situ, so the coating is an ideal choice for commercial sector clients.

For the vanities, Washroom installed bespoke units with mirrors and lighting designed to complement the Alto cubicles. Ultra-durable and easy-to-clean Corian, manufactured in long troughs, was used for the vanities, further adding to the high specification feel. Washroom’s integrated duct panelling system manufactured in a bespoke glass design was used to add to the sleek design, while also making access for any future repairs or maintenance much easier.

Simon Evans technical director at SPPARC Architecture commented, “We’d worked with Washroom previously so were confident the team would be able to deliver the high quality, high specification finish the client was looking for. We were pleased with the end result, which fits perfectly with our designs while also incorporating several practical solutions.”

For more information on the range of services and products offered by Washroom Washroom or to request your copy of the new Iconica Collection brochure, please visit www.washroom.co.uk/iconica call 0845 470 3000 or email sales@washroom.co.uk.

Washroom’s bespoke approach to design has enabled it to create some of the most inspirational washroom spaces for iconic projects both in the UK and internationally. Bespoke features such as an integrated handbag shelf, concealed consumables or duct panelling which doubles up to offer concealed storage are also available, allowing specifiers and architects to create a completely unique space for their clients.

The Iconica Collection focuses on utilizing materials which are not traditionally associated with washrooms such as back-painted toughened glass, anodised aluminium, cast acrylic, granite and marble as well as unique Page Lacquer coating, real wood or engineered veneer. Solid Surface Corian is a popular choice for office washrooms due to the fact that it is extremely durable and easy to clean but is also incredibly versatile and can be manufactured in a range of colours and cut to any shape making for a practical solution without compromising on aesthetics.

With its complete service encompassing design, manufacture, installation and project management, Washroom is able to effectively manage each aspect of a project and guarantee the high quality clients expect. Each scheme is allocated a professional installation team together with a dedicated project manager who together see the project through each process from the initial design to manufacturing and installation, on time and to budget. With the option for the team to create a mock-up of the design at the outset, clients can rest assured the whole process will be as smooth as possible.

The Iconica Collection provides architects and specifiers with the tools needed to create a unique washroom space designed around clients’ individual needs, whether for new builds or refurbishments.

Enquiry 24

email sales@washroom.co.uk.

For more information on the range of services and products offered by Washroom Washroom or to request your copy of the new Iconica Collection brochure, please visit www.washroom.co.uk/iconica call 0845 470 3000 or email sales@washroom.co.uk.

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The demands of the commercial sector have changed noticeably in recent years with more high specification materials and finishes requested as tenants and potential tenants increasingly judge a building based on its facilities including its washrooms. With new offices springing up all the time, especially in London, landlords need to ensure office space stands out from the crowd. At the same time, companies are seeing that offering high specification facilities can help to attract and retain the very best staff.

Washroom’s new flagship Iconica Collection, which is ideal for projects demanding exacting aesthetic and performance standards, has been developed specifically with the high end commercial sector in mind to meet the needs of landlords and office workers alike.

The idea behind the Iconica Collection is simple. It is a unique range of high specification bespoke products, materials, finishes and designs including practical solutions, and is the ideal way to create quality, stylish washrooms as well as staff shower and changing facilities for a range of different environments.

Flexibility is integral to the Iconica Collection, as it provides a virtually endless array of design possibilities for its cubicle doors, vanities, benching, lockers and integrated duct panelling, which can all be tailored to clients’ individual specifications to create a unique, yet practical design. All of these products can be manufactured in a vast array of different materials, finishes and colours.
**Pressalit Care Introduces Building Information Modelling**

Pressalit Care has introduced BMI (Building Information Modelling) for its complete range of accessible bathroom products, including its range of Matie washbasins, nursing benches, and the Plus horizontal track system. All products are explained in detail along with their inclusion in complete packages. The seminar examines the recommendations in Building Bulletin 102. BS8300:2009 - including Changing Places facilities. For education projects, appropriate layout and product solutions are presented for a variety of sectors.

**Pressalit Care has the use of BMI in its RIBA approved CPD seminar, Best Practice in Accessible Bathroom Design. This seminar forms part of the RIBA core curriculum under ‘design for accessibility.’**

Appropriate layout and product solutions are presented for a variety of applications with consideration given to Part M of UK building regulations, 85800:2010 - including Changing Places facilities. For education projects, spatial requirements for using the toilet, basin and shower as individual elements are explained in detail along with their inclusion in complete layouts.

www.pressalit.com or email: uk@pressalit.com

**Lily Furniture – High Quality Furniture Deserves A High Quality Finish**

Many woodwork professionals across the UK enjoy using Osmo’s UK’s wood finishing products. All Osmo products are designed to enhance, maintain and prolong the beauty of wood – an ideal finish for all wooden furniture. Gavin Kirkland, owner of Lily handmade furniture, has dedicated his life to creating strong hand-carved furniture. Based in North Yorkshire, Gavin’s pieces are bespoke and made in 100% solid oak. In order to ensure maximum wood protection, Gavin uses Osmo’s Polyx-Oil and Wood Wax Finish products. Osmo’s Polyx-Oil is suitable for the protection of all wooden flooring and furniture, providing hardwearing and durable protection. To mark the quality of his craftsmanship, Gavin poignantly finishes each piece with his company’s signature – a hand carved lily in honour of his daughter.

www.osmouk.com

**Ice Age**

Ice Concrete, part of the New York Collection of quartz surfacings from COMPAC, is one of four new stunning quartz colours recently launched by the company. Inspired by America’s New York loft culture, creating a fusion between architecture, design and functionality, the New York Collection offers a totally new quartz surfacings that explores an industrial and urban aesthetic which will revolutionise how we think about worksurfaces. Silky, soft and sensual to the touch, Ice Concrete, Beige Concrete, Dark Concrete and Beige Zement will electrify and awaken the senses offering an opportunity to create contemporary surfaces that reflect the style and excitement of loft living in the ‘Big Apple’. The New York Collection now offers seven urban colours with exclusive finishes, all of which combine depth of colour and definition of grain – all hardwearing, hygienic, easy to clean and maintain. The New York Collection from COMPAC – the beginning of a great story.

www.compac.es

**Unique Digital Tile Mural Scoops Top Prize for Craven Dunnill**

Craven Dunnill has been named best in class by the TTA for an exclusive tiled panel it designed and manufactured, using the latest digital technology. The Tile Association awarded Craven Dunnill top prize in the Best Use of Tile in a Domestic Environment category for its exclusive kitchen splashback.

The company designed, manufactured and arranged the installation of the 1850mm x 905mm ceramic glazed digital panel. The clients wanted to capture the romance of their wedding day and the kitchen mural depicts them riding to their wedding reception, across the local countryside. Craven Dunnill offers a comprehensive mural design service, from conception to installation. It produces bespoke murals for a wide variety of internal and external applications, from small domestic splashbacks to large, public art works.

The company also won the top award in the Floor Tile of the Year category for its new Fusion glazed porcelain floor and wall tile collection. The range caters the trend for clipped-back urban living with the practical desire for timeless style. The stone-look characteristics include elements of petrified wood and naturally metamorphosed sandstones. Fusion is offered in a comprehensive selection of sizes and formats in a unified 10mm thickness.

www.cravendunnill.co.uk

**Electric Shower Range From MX**

MX Group’s new ‘Q’ electric shower range – a ‘quick installation’ range of electric showers that sets new standards for simple installation - features eight entry points for water and electric. These showers are the simplest and most effective electric shower installation option in today’s marketplace. Ideal for new build or retrofit opportunities, these attractive showers are up to 30% slimmer than other units on the market. They’re an ideal replacement product where an old shower has been removed or for shower replacement programmes for social and private landlords. Models are available in 7.5kW, 8.5kW, 9.5kW and 10.5kW models.

www.mx-group.com

**Kemmlit Cubicles Provide Winning Solution For Rugby Club**

Redingensians Rugby Union Club based near Sonning, Berkshire, recently completed an impressive £750,000 redevelopment of its club house. For the club’s washroom facilities, Kemmlit’s Apax Cubicle System in blue and grey was specified by architects Orange Key and installed by Kemmlit’s own contractors. Apax cubicles, although very economical and hard wearing, have high specification features including 13mm solid grade laminate panels, rebated doors and stainless steel fittings.

www.kemmlituk.com

**Cod Is In The Detail - And The Design**

Cape Cod offers unique east coast Atlantic flair. The area is known for its long sand beaches, crystal clear water, blue ocean, nature and fishing. With this scenery in mind, Philippe Starck and Duravit have designed a new high quality bathroom collection which includes ceramic washbasins with amazingly narrow edges, a line of perfectly coordinated bath tubs and unique bathroom furniture which can be placed wherever you want. Cape Cod is captivating not only because of its unique design, but first and foremost because of its authentic materials, solid real wood and an innovative ceramic formula which allows for especially thin and delicate wash bowls.

www.duravit.co.uk

**ShowerSelect Thermostats Now Feature A High Quality Glass Surface**

While white and glistening metal emphasize the clear design language of the latest ‘Select’ shower products from Hansgrohe, a high-quality glass surface, elegant design and intuitive operation make Hansgrohe’s new concealed ShowerSelect thermostats an attractive addition to any bathroom. Their timeless and clear design blends well with modern architectural trends and the white glass surface harmoniously into every bathroom environment. The ShowerSelect thermostats can be combined with Hansgrohe’s existing product portfolios and the new Rammaker Select showerheads. Hansgrohe developed the controls with its longstanding design partner Phoenix Design.

www.hansgrohe.co.uk

**Kaldewei – Silenio Baths And Washbasins**

Kaldewei, alongside new product collections, washbasins are available to complement Kaldewei’s most popular product ranges, all meticulously crafted in Kaldewei 3.5mm steel enameled. The new Silenio range, created in collaboration with designer, Arne Sallander, is distinguished by soft interior lines with the bath tubs and washbasins harmoniously combined. Its characteristic features are the flat bathtub rim and the sharp corner radii which allow the bath to visually melt into the bathroom. The matching Silenio washbasins also feature the organic design of the bath, flowing gently onwards from both sides into a soft hollow with a spacious surround that offers plenty of room for fittings and accessories.

www.kaldewei.co.uk
Design, innovation, attention to detail and high quality manufacture are the core values of the Shopkit Group, and these especially apply to our cabinet range. We offer contemporary frameless display cabinets and counters in a variety of materials, beautifully finished with high quality satin and mirror polished stainless steel and satin anodised aluminium components, all designed and manufactured by us in the UK.

Refined detailing and minimalist construction define this range, which feature lockable doors and integrated low-voltage lighting with discrete transformers, secured beneath their base. They are elegant yet robust and they are designed to suit all types of interior applications, including office, retail, museums, hospitality and contemporary home environments.

Recently, some of our most popular cabinet designs are now available to purchase online, with all you require to install them onsite. http://shop.shopkit.com

Made to Measure options available
We can also customise our existing range, as well as design, manufacture and install many other different styles of cabinets and counters to suit all types of interior applications, for further details please contact our Sales Team on +44 (0)1923 818282 or email us on sales@shopkit.com

www.shopkit.com

DuPont™ Corian® Shapes
The Future In Blackpool

CD UK has supplied DuPont™ Corian® for a striking contemporary design in the reception area of award winning office building 1 Bickerstaffe Square, the heart of Blackpool’s £220m regeneration project, Talbot Gateway. The 25 acre site around Blackpool North railway station comprises more than 1 million sq ft of mixed-use development with Bickerstaffe Square the iconic centrepiece of the scheme.

Designed by Muse Developments and fabricated by Delta Laminates, the unique installation, created from Corian® shapes, uses Glacier White Corian® for the reception counters and wall and ceiling features on a full Corian® background. Random patterning and LED lighting add to the dramatic effect, creating a stunning impact on entrance to the showcase building.

The qualities of Corian® make it the perfect solution for many applications. Its aesthetic quality, strength and sensuality mean that it can be applied to almost any scheme in any sector. Designers can create unique showpieces that are dependably durable, waterproof and stain resistant over large or small surface areas. The range of colours when combined with lighting solutions adds to the limitless design options.

Enquiry 34
Caesarstone’s interpretation of natural Calacatta marble, Calacatta Nuvo brings you wide, elegant, cascading, grey veins on a white opaque base.

Calacatta Nuvo makes an unforgettable impression and upgrades any interior design into a masterpiece. This latest design from Caesarstone offers the beauty of luxurious natural stone with the ease of Caesarstone care and maintenance.

www.caesarstone.com

Enquiry 36
Comar 5P.i ECO+
Comar Architectural Aluminium Systems constantly look for ways to exceed what the market demands. Current trends are for window and door systems to provide aesthetics as well as achieve environmental, security, thermal efficiency and lifecycle targets. Therefore, Comar are pleased to launch their latest development: the Comar 5P.i ECO+ range.
Comar 5P.i ECO+ offers additional thermal performance to the Comar ECO product range: by extending the polyamide strip and inserting thermal foam, this product range will provide a future-proof solution for casement windows meeting U-values up to 0.79W/m2K. With more and more energy on the environment, window and door systems must be sustainable.
Due to its slim profiles, the Comar 5P.i ECO+ range weighs less than 0.79Kg per linear metre and therefore achieves a Green Guide A+ rating. www.comar-alu.co.uk

High-Tech and Classic Handmade Garage Doors
Rundum Meir UK Ltd specialise in high quality, standard and custom made, exterior door systems that are made in a range of beautiful materials including timber, copper, aluminium and glass. They offer a complete exterior door systems service - from survey and design to manufacture, installation and maintenance.

Brio’s Quick On The Draw With 286 Dual Point Lock
Brio, the leading door hardware manufacturer, has launched a new lock option for its exterior folding Weatherfold 4s system. Brio’s new 286 Dual Point Lock is suitable for Brio’s robust exterior folding system Weatherfold 4s system with timber or aluminium panels. It is also suitable for single hinge panels and French doors.

Vicaima Make It Snappy With New Doors App
Deciding which interior door design or finish best suits a particular space just got easier, with the launch of a new mobile application from one of the UK’s leading door manufacturers.

How 30 Pence Can Make The Difference Between A Damaged Window And A Ransacked Home
Imagine this, you have a Tilt&Turn window fitted in your home. One day, when you are out, a burglar arrives with a bag of tools, determined to break in because they believe you have some things worth stealing: iPads, laptops, TV etc. The would-be thief starts to attack your window. Amongst the tools in their kit are crowbars, screwdrivers and wedges. They also have a drill.
Your Tilt&Turn window has a good level of security. They are not going to be able to easily prise it open. But what they are going to do is try to unlock the hardware mechanism. This is a clever technique, because it doesn’t need brute force. What they are trying to do is drill in and access part of the hardware mechanism, so they can slide the locking points into the ‘open’ position.
If they can expose one of the locking cams, they might be able to push a screwdriver or something in there and move the cam out of its strike plate. If it moves, all the others will follow. But there is one obstacle to this: the handle. With your handle closed and locked, the hardware mechanism is effectively deadlocked. The drive train cannot move, so even if a cam is accessed and pushed, it won’t be able to move.
For the thief, there’s an obvious way around this: attack the gearbox into which the handle is connected. They don’t need to guess where it is, because they can see where the handle is located through the glass. If they can effectively drill out the gearbox, the hardware will be much more free to move. This is where 30 pence can make the difference between a damaged window and a ransacked home. Because that is the cost of an anti-drill plate.
This small and unobtrusive item is made from hardened steel. It is designed to clip onto the side of the hardware mechanism and protects it against drilling. If they can expose one of the locking cams, they might be able to push a screwdriver or something in there and move the cam out of its strike plate. If it moves, all the others will follow. But there is one obstacle to this: the handle. With your handle closed and locked, the hardware mechanism is effectively deadlocked. The drive train cannot move, so even if a cam is accessed and pushed, it won’t be able to move.
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Crittall’s Stylish Windows Solution

A prestigious headquarters building has been created within the stylish Marylebone Conservation Area in central London with the help of Crittall Corporate W20 windows both inside and out. No. 116 Marylebone Lane, a four-storey 1930s building in the W1 area north of Wigmore Street, is owned by the Howard de Walden Estate and was previously in use as a Cordon Bleu cookery school.

Architects Morrow+Lorraine, who have particular expertise in the London commercial office, residential and retail sectors, were engaged to refurbish the building converting it from D1 non-residential use into a B2 self-contained Grade A office building. A layout was chosen that maximizes the floor to ceiling height with clear open floor plans yielding some 150 sq m on each of the four floors plus basement. The design provides for flexible space devoid of lobster so as to aid free-flowing circulation.

“The building frontage had been badly altered in the past and we wanted to recreate the elegance of the original façade which was achieved using a combination of glazed bricks, bespoke joinery and new steel windows,” says director of Morrow+Lorraine Julian Morrow.

The project architect Peter Merrett takes up the story: “We selected the Crittall Corporate W20 product to re-create the dim lines of the original 1930s glazing that needed to be replaced, whilst dramatically improving the thermal performance by incorporating double-glazed units. The choice was largely driven by a desire to maintain the same pattern of glazing bars to preserve the character of the Marylebone Lane conservation area.”

The Crittall Corporate W20 units were employed front and rear in the refurbishment and the front elevation at ground floor level was reconfigured to reflect the original drawings from the architectural practice Forbes & Tate who designed the building in 1926-27. Internally, the designers wished to reveal as much of the original fabric as possible. This was achieved by stripping back finishes and exposing the steel columns of the building’s structural frame. This emphasis on the use of steel was enhanced by the fenestration of the façade, a new steel staircase and the use of steel internal partitions.

“We used the same Crittall Corporate W20 system to create single glazed screens which in turn allowed for a visual connection between the office space and the stairwell, reception area and common parts,” explains Peter Merrett. Referring to the W20 he adds: “The product is a design classic which fits seamlessly with our industrial, yet refined interiors.”

The inclusion of fire-rated and acoustic glazing also enhanced the technical performance of the Crittall Corporate W20 system. The Crittall partition in the reception area acts as a muted backdrop to the focal point of the space, namely a bespoke polished concrete desk designed by Morrow+Lorraine and constructed by Lowinfo Design.

www.crittall-windows.co.uk

At Last! A Saltless Water Softener That Actually Softens Water

The Pureau range uses traditional ion exchange resins to produce superb, soft water for household or commercial use. The 3 models (Eau 1, Eau 2 and Eau 3) range from 20 litres per minute to 70 litres per minute and are suitable for both gravity and pressurised water systems. As the systems are cartridge based maintenance is simple. The main cartridge lasts 12 months and the post filter cartridge will last for 2 to 3 months. The Pureau Range has been designed to meet the demands of providing a water softener without the use of salt that provides softer water to the touch.

Pureau water treatment systems remove a high percentage of scale forming minerals. Magnesium and calcium in the water is essential for good health so Pureau systems do not remove it all, just enough to bring it down to accepted soft water levels. The systems do not waste water or require a power source or drain. The range is suitable for gravity fed and pressurised water systems, they are also suitable for combination boilers.

The units do not add sodium to the water they can be used on properties with septic tanks. Pureau systems incorporate a raw water feed which ensures trace minerals are left in the water for health, they also provide perfect water for ice making, tea and coffee.

www.aquaziere.co.uk

Free CPD Guide to Energy Savings Opportunity Scheme

Organisations facing the compulsory requirements of the Energy Savings Opportunity Scheme (ESOS) by the end of this year will be interested to hear of a free, CPD-certified guide from Mitsubishi Electric.

The guide looks at the scheme which is a mandatory energy assessment mechanism for large companies in the UK. The independent information in the guide has been compiled to outline the measures for success in the scheme and show companies how they can comply with the legislation.

The free guide can be downloaded at Mitsubishi Electric’s dedicated document library: http://library.mitsubihielectric.co.uk/pdf/book/Energy_Savings_Opportunity_Scheme_CPD_Guide

www.library.mitsubihielectric.co.uk

At Source: New Condair RS Steam Humidifier

Condair, formerly JS Humidifiers, is launching a new resistive steam humidifier, the Condair RS. It has a patented scale management system that allows easy removal of limescale, resulting in reduced maintenance and extended operational periods between major services. It also incorporates the latest touch screen control technology, has BMS connectivity as standard and offers very close humidity control at ±1% RH with RO water.

The Condair RS patented scale management system sets it aside from all other humidifiers in its class and makes it the most user-friendly resistive steam humidifier in the world. Scale that forms on the heating elements detaches during operation and falls into a scale collector tank, located under the building cylinder. www.condair.co.uk

Enquiry 43

Enquiry 42

Pegler Yorkshire Announces An Industry First

Pegler Yorkshire has announced it is the first UK manufacturer to receive WRAS approval on its range of Heat Interface Units. WRAS is the industry standard for UK approved water fittings that are compliant with the UK plumbing regulations.

All products are approved by UK Water Suppliers using the performance requirements set out by the Secretary of State at the Department for Environment, Food and Rural Affairs.

The Miebes range of HUs are designed to meet the needs of UK systems and applications and, whilst the market will continue to have bespoke units to suit the individual projects.

www.pegler-yorkshire.co.uk

Enquiry 45
at:work
the latest project news
DuPont™ Tyvek® UV Façade Offers Discreet Protection For A Contemporary And Sustainable Timber-Clad New Build In Bristol

An elegant open-jointed façade design demands not only high-performance protection but also a discreet subtlety that will not compromise the aesthetic vision.

When Point1 Building Systems were tasked with installing an attractive western red cedar cladding system to a residential extension conceived to blend with its environment, DuPont™ Tyvek® UV façade was the obvious choice of advanced breather membrane.

Created especially for such applications, DuPont™ Tyvek® UV Façade was developed using the same unique technology that has made DuPont™ Tyvek® the market leading breather membrane. This innovative solution allows for greater freedom and confidence when designing ventilated facades and reliably protects the structure, including the pitched roof.

DuPont™ Tyvek® Butyl tape was used to seal penetrations and DuPont™ Tyvek® UV Facade tape to seal the laps. Excellent technical support and really helped us to develop the specification for installing the membrane. We positioned counter battens vertically up and horizontally across the roof slope to accept the 44 x 18mm Western Red Cedar Cladding. We then laid battens over counter battens, also all stained black in order to match the roof slope to accept the 44 x 18mm Western Red Cedar Cladding.

Garry Dyke, Director of Point1 Building Systems explains, “The cladding was not continuous and therefore we needed a completely black, waterproof and UV-resistant breather membrane that would not be seen. DuPont provided excellent technical support and really helped us to develop the specification for installing the membrane. We positioned counter battens vertically up and horizontally across the roof slope to accept the 44 x 18mm Western Red Cedar Cladding. We then laid battens over counter battens, also all stained black in order to match the subtlety of the membrane.”

Garry continues, “Our installation team found this to be a very robust membrane that was easy to work with, what’s more DuPont offers a good range of supporting seals and trims to assist in minimising puncturing etc. Altogether this is a superbly insulated project, in addition to DuPont™ Tyvek® UV Façade and the Kingspan TEK142 wall and roof panel system, we also installed a 25mm layer of TP10 (Thermapitch) to further reduce thermal bridging and improve heating response times. Overall we have achieved impressive through wall U-Values of 0.35W/m²K.” www.tyvek.co.uk

Enquiry 47

KP Nutz Chooses Proven Hygiene Flooring Solution For New Production Facility

Leading snack manufacturer, KP Snacks, has chosen a proven hygienic flooring solution from specialist suppliers Resin Surfaces Limited (RSL) and Kemtile Limited for its new production site in Rotherham, South Yorkshire. KP Snacks’ new nut processing and packing facility opened in autumn 2014. It covers 8,500 square metres and will produce all of KP’s volume of nuts and nut snacks.

For the project, RSL and Kemtile were required to meet an exacting hygiene and safety standards brief and to supply and install a durable, hard-wearing, easy-to-clean, chemical and slip-resistant surface finish.

Kemtile recommended RSL’s Resuthane TG69 product as it is a heavy-duty polyurethane screed, with a matt-textured finish, suitable for use on large-scale production facilities.

David Priest, Sales Manager at Kemtile, commented: “We have been supplying and installing hygienic flooring systems to the food industry for nearly 40 years. Choosing the Resuthane TG69 product from RSL made sense from a supply and performance point of view. RSL also provided a long guarantee on the system.”

Martin Wroe, Commercial Director at RSL, said: “This is an exciting project for a world famous brand and we are delighted to be collaborating with Kemtile. Resuthane TG69 is the ideal solution for KP Snacks’ new factory as it ticks all the boxes in terms of food safety, slip-resistance and durability. This product is becoming increasingly popular among customers in the food and drink sector.” www.resinsurfaces.co.uk

Enquiry 49
Contour Help To Remember ‘The Few’

When the guns finally fell silent over Europe on the 8th of May 1945 the nation rejoiced that the slaughter was over. However in celebrating the future the past would not be forgotten as a host of memorials were erected in Great Britain to remember both the fallen and the actions of the heroes. The National Memorial to The Few’ on the famous white cliffs between Dover and Folkestone in Kent, occupies a special place in the hearts and minds of all those who have visited this moving site. The Wing is the Battle of Britain Memorial Trust’s new building at this memorial site. This eye-catching building was designed by Folkestone architectural practice Golden Allen Lawn, with the pitch of the roof to mirror the angle of a Spitfire’s wing. Contour were then specified as the manufacturer tasked to develop a series of innovative solutions to overcome some arduous design challenges. The design and manufacture of a varied selection of products - 25 column casings; 17 internal each in 2 colours and supplemented with 8 external column casings. Critically the pitch of the roof required that many of the internal column casings be created with a 5 degree angled sloping top. The difficulty factor at the Wing building would be compounded by its closeness to a shore line environment which could adversely affect the external column casings. To protect the metal from the corrosive effects of the sea air a Syntex Pulvin Powder Coating was applied to the external casings. www.contourcasings.co.uk

Kemmlit Specified For State Of The Art Science Facility

Dublin College, founded in 1619, is an independent school for boys in southeast London. This historic college recently opened phase 1 of a multimillion pound, 4400m² Science Building named the Laboratory ‘designed by architects Grimshaw and built by McLaren’. In keeping with the sustainability and high specification requirements of the building’s construction materials, Grimshaw specified Kemmlit to supply and install 200 bespoke lockers faced with a cherry wood veneer, the wood carcasses having a matching cherry wood finish over melamine faced meliro board. A number of the lockers were supplied with glass fronts to house exhibits including some from Shackleton’s expeditions. Kemmlit also supplied the slatted ventilation elements which were also faced in cherry wood.
www.kemmlituk.com

Glassolutions’ Advanced Approach Changes The Face Of One St. Paul’s Churchyard

GLASSOLUTIONS’ latest generation of advanced multi-functional glazing has delivered the optimum balance of thermal, solar and acoustic control for two high-end refurbishment projects in the shadow of St Paul’s Cathedral. The stunning One St Paul’s Churchyard re-refenestration and facelift projects comprises extensive office space and 23 guest rooms from the five-star Ghernie St Paul’s Hotel. Partnering with External Envelope Contractor Euro Windows, GLASSOLUTIONS designed a glass specification featuring the new SGG Cool lite Xtreme 6028 to complement the bespoke window system being used and to achieve the demanding requirements of the clients. Over 600m² of double glazed units were crafted for the new complex, which takes on a neutral aesthetic appearance to complement its famous neighbour – St Paul’s Cathedral. www.glassolutions.co.uk

Enquiry 50

Leading Foundation Trust Chooses Yorkon Off-Site Solution To Expand Ward Accommodation To Meet Demand For Emergency Care

Frimley Park Hospital chose a Yorkon off-site building solution from the Portakabin Group for a new 34-bed emergency care ward to help address the increased pressure on health services particularly during peak periods. The two-storey ward building which provides beds for critical and elderly care was handed over after just four months on site. The use of off-site construction ensured any disruption to the hospital was kept to an absolute minimum and radically reduced the programme time to allow earlier occupation to the benefit of the local community.

Frimley Park Hospital, part of Frimley Health NHS Foundation Trust, was the first hospital in the UK to be rated ‘Outstanding’ by the Care Quality Commission. It serves around 400,000 local people in Surrey, Hampshire and East Berks and has experienced significant increases in GP referrals and emergency medical admissions. The new ward building has expanded capacity and was manufactured and partially fitted out off site in York which cut the programme time by around half compared to site-based building methods.

Commenting on the use of a Yorkon off-site solution, Greg Hinde, Capital Project Manager at Frimley Health NHS Foundation Trust said, “Speed was the principal driver for choosing modular building for this scheme. Site-based construction just would not have enabled us to have the building up and running as quickly. The new wards have been well received by staff and patients. We think the design of the workstations within the bed-bay area works particularly well and facilitates patient contact. The overall design and layout is very open and spacious, and provides a fantastic environment for patient care and for staff to work in. The team at the Portakabin Group was great to work with and we would not hesitate to recommend this approach to other trusts needing to expand capacity, quickly and cost effectively.”

Simon Ambler, Director of the Portakabin Group said, “The pressure on health services and particularly on emergency care units continues to rise year on year. As a result, we are seeing increased demand for a range of healthcare buildings – wards, theatres and diagnostic facilities, which are being strategically planned by trusts anticipating their needs for the coming winter months and peak periods.” These buildings are complex, specialist and highly serviced facilities required to expand capacity on typically extremely constrained hospital sites. These requirements are increasingly being met using off-site solutions – in up to half the time of site-based building methods, with much less disruption to patient care, greater certainty of completion on budget and on programme, and to stringent quality and NHS standards. Facilities in the new building at Frimley Park Hospital include single en-suite rooms and six to nine-bed wards, clean and dirty utilities, kitchenettes, staff rooms, offices and stores. Externally it was finished in light grey with a dark grey trim and it has a flush, column-free façade.

The use of an off-site solution for this ward building also helped to address the site challenges. This was a highly restricted, sloping site in close proximity to other hospital facilities which had to remain in use throughout the construction programme. A retaining wall was constructed as the site sits lower than the adjacent road – and this blue light route had to have access for emergency vehicles maintained at all times.

The pre-installed Yorkon concrete floor system was specified throughout the building for a robust and high performance finish. The new wards are linked to the existing ward building at both ground and first floor levels which required precision engineering of the steel framed modules. For further information about Yorkon off-site building solutions for hospitals and clinics, call 0845 2001 123, email info@yorkon.co.uk or visit www.yorkon.co.uk

Enquiry 53
Founded in 1863, the Ashmolean Museum is the most significant museum of art and archaeology in the UK and welcomes more than a million visitors each year.

Oxford based flooring firm, ACH Flooring, regularly recoats the original herringbone floors in the City’s Ashmolean Museum with Bona Mega. Cleverly formulated to use oxygen as a crosslinker, Bona Mega delivers the performance of a two component lacquer in the convenience of a one pack product and is designed to offer high wear and chemical resistance in domestic, commercial or public environments. A sustainable, NMF free lacquer, Mega provides the museum’s maintenance team with a durable, easy to clean surface. Bona Cleaner and Bona Polish are used for ongoing maintenance of the floors.

ACH’ s Kevin Smith said “We have been using Bona lacquers since the 1980s when the company’s core products included Pacific One and Pacific Strong. Today we like using Bona Mega for commercial and domestic projects because of its fast drying times, it has no smell, and for the finished look. Also our mops and brushes can be easily cleaned. We’ve been using it now for many years and have never had any problems with it.”

The museum team wanted a soft sheen to the surface so Kevin recommended using one coat of Bona Prime Classic followed by three coats of Bona Mega Silk Matt to achieve this.

Bona Mega is available in four sheen levels including Extra Matt that combines a hard wearing surface with a very natural, almost ‘invisible’ finish to the surface.

Bona’s technical team is available for support on site or over the telephone to assist you with your wood flooring project and to ensure the surface meets your client’s aesthetic and performance criteria. The company is also a RIBA approved CPD provider and offer a seminar on how to specify finishes for wood floors. Further information is available at bona.com

Enquiry 54

Balcony Demand Reaches New High

neaco are experiencing a major growth of business within the residential sector following the specification of their Clearview balcony systems in a wide range of apartment projects. The rejuvenation of the UK’s property market and the house-building industry has seen a surge in demand for neaco’s contemporary glass-fronted balconies designed for high aesthetic value, easy installation and durability. The company has completed a series of specifications in the past 12 months and several major orders have been secured for new developments due for completion later this year.

neaco’s UK Business Development Manager, Peter Melia, said: “Demand for our balconies reached a peak almost ten years ago, prior to the downturn in the economy and the housing market, but the recovery of the residential sector has seen demand return to an even higher level in 2015. We recently undertook a recruitment drive for site fitters and our installation team has quadrupled in size in the past two months. We have also recruited another CAD Technician with specific responsibility for managing our ongoing and future balcony specifications.”

“Most of the demand is being attracted from the luxury end of the market with high specification apartments which require superior kerb appeal. The stylish contemporary aesthetic of our isolat and walk-on balconies is an ideal match for this type of development. Their eco-friendly construction, with minimal waste and no energy-consuming hot works required for installation, is also a key feature in a sector which values sustainability.”

neaco’s product range also includes balustrade, adaptive bathing facilities and aluminium open grilles for flooring, screening and shading applications. Further information is available at www.neaco.co.uk

Enquiry 55

Platon Sealed System Supplied For Iconic Fire Brigade Building Conversion

Triton has supplied 3,000 m² of BBA certified Platon P8 cavity drain membrane to waterproof several basements at the iconic West Midlands Fire Brigade building at Lancaster Circus in Birmingham. The membrane forms part of a Type C drained waterproofing system (as defined in BS 8102:2009) to the area, which is being converted to residential accommodation for 463 students from Aston University.

The system is being installed by Triton approved contractors, Protechframe, working for Watkin Jones Construction. Cavity drain membranes work by allowing any water ingress to continue to enter the building through the walls, but then controlling it and diverting it down the wall to a perimeter drainage conduit. In this project, the conduit diverts the water to one of 10 sumps, each housing a Triton Aqua Pump Pro Plus kit (each comprising mains powered and battery back up pumps).

Moisture had been penetrating into parts of the basement for several years through the wall/floor joint and various cracks in the original floor slabs. Although large floor areas have been excavated to allow for greater head height and replaced with new floor slabs, many of the original floors have been left in situ. As the Platon system allows moisture to enter the structure there is no hydrostatic pressure on existing floor slabs and no need to replace them.

Triton’s technical team has worked closely with the architect, main contractor and specialist basement contractor from design inception through to overseeing installation and testing of the system. Further information is available at www.tritonsystems.co.uk

Enquiry 56
Altro Brings Malvern Fire Station Up To Speed

A wide range of Altro flooring and wall cladding has been used in the newly re-constructed Malvern Fire Station, helping to create a facility that can withstand the demands of modern fire-fighting, and an aesthetically-pleasing working environment. The fire station needed to be upgraded on all counts, withstanding the demands of modern fire-fighting, and an aesthetically-pleasing working environment. The fire station needed to be upgraded on all counts, withstanding the demands of modern fire-fighting, and an aesthetically-pleasing working environment.

For the new station’s kitchen, showers and locker rooms, Alan Jones and his team selected Altro Whiterock White™ wall cladding. Altro Whiterock White is impact resistant, grout-free and easy to clean. It is made from a high-quality, food-safe PVCu polymer that can handle temperatures up to 60°C, and meets all current EU Directives on health and hygiene. Alan Jones continued: “For the floors in the kitchen, showers and locker rooms, we chose Altro Aquarius™ safety flooring because we wanted a surface that was hard-wearing, safe underfoot in all conditions, comfortable, attractive and easy to clean. It’s a very modern-looking product with some great colours.”

Altro Aquarius was developed for lasting performance in wet and dry, with shoes or barefoot. Like all Altro safety flooring, it offers sustained slip resistance for the lifetime of the product, keeping your risk of a slip to just 1 in a million. www.altro.co.uk

Enquiry 60

Cubicles Find A Good Home

High Pressure Laminate from Abet Laminati has been used to clad the cubicles of the new headquarters of the Legion News at Whiterock House, central London. Fabricated by specialist washroom and cubicle manufacturer Decra Ltd, the 616 Walnut Saber finish has created a warm, executive and luxurious feel to the washrooms. The Legion News range of woodgrain effects is a popular choice for surfaced. With around 100 different wood species patterns available in the Legni and Legni News collections, designers have an impressive range to choose from.

www.abetuk.com    www.decratltd.co.uk

Enquiry 58

Rescue Service, explained. “The building failed to meet operational needs, as Alan Jones, Capital Projects Manager at Hereford & Worcester Fire and working environment. The fire station needed to be upgraded on all counts, withstanding the demands of modern fire-fighting, and an aesthetically-pleasing

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Enquiry 60

Sovereign Supplies 369 VEKA Vertical Sliders For Notting Hill Social Housing Renovation

The Vertical Slider Window System from VEKA has been used exclusively in the re-glazing of a large social housing development in West London’s Notting Hill. Fabricated and installed by Sovereign Group Ltd, the 616 Walnut Saber finish has created a warm, executive and luxurious feel to the washrooms. The Legion News range of woodgrain effects is a popular choice for surfaced. With around 100 different wood species patterns available in the Legni and Legni News collections, designers have an impressive range to choose from.

www.abetuk.com    www.decratltd.co.uk

Enquiry 58

Altrex Supplies On Show At Fulham Wharf

Fulham Wharf has become one of London’s most coveted addresses. With such a large variety of requirements to be met, and the necessity for expert materials, to ensure a high quality build that would not fail, Altrex Ltd knew they were the right waterproofing designers and manufacturers for the project. Altrex Ltd supplied their Wilotekt® Plus system, a robust, inverted, second generation hot melt structural waterproofing system that met the demands of this challenging project. With the redevelopment of an existing supermarket and the simultaneous construction of 463 new homes, it was paramount that the waterproofing was resilient, capable of withstanding construction traffic and adaptable to suit the variety of roof finishes required.

www.altrex.co.uk

Enquiry 59

Housing Renovation

Sovereign Supplies 369 VEKA Vertical Sliders For Notting Hill Social Housing Renovation

The Vertical Slider Window System from VEKA has been used exclusively in the re-glazing of a large social housing development in West London’s Notting Hill. Fabricated and installed by Sovereign Group Ltd, the 616 Walnut Saber finish has created a warm, executive and luxurious feel to the washrooms. The Legion News range of woodgrain effects is a popular choice for surfaced. With around 100 different wood species patterns available in the Legni and Legni News collections, designers have an impressive range to choose from.

www.abetuk.com    www.decratltd.co.uk

Enquiry 58

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Enquiry 59

Printed Glass Solutions Turning Glass Into Art

Printed Glass Solutions have over 30 years experience in the printing industry. Based in custom built premises housing the very latest in digital printing machines, they are the experts in the creation of stunning printed images onto glass.

The last ten years has seen a massive change in how glass is used within interior design. New manufacturing processes allow glass to be made stronger and in more intricate shapes and sizes which has seen it become used more widely for aesthetic, rather than architectural purposes. It was this change that led us to move away from the more traditional areas of printing to concentrate fully on printing images to glass.

Every order they undertake at Printed Glass Solutions is bespoke both in terms of size and image. Their in house design team are able to take any image you may have and turn it into a glass print of any size. Their printer table allows them to print images onto single panels of glass up to 3 x 2m, however they are skilled at creating much larger images by splitting images across several panels and creating a tiled solution.

Their latest work can be seen on the walls of the new entrance and ticket office at the newly refurbished Tottenham Court Road tube station, designed by world famous artist Daniel Buren and covering over 260sq m and spread over 200 panels, this striking black and white design is set to be joined but even more designs later in the year as more of the station opens.

All of their glass in manufactured to all BS standards and their printer inks are sourced from around the world to ensure that we produce industry leading clarity and colours in their printing. It is this commitment to quality that has seen us work closely with many architects, interior designers and brand managers helping them transform their ideas into vibrant, eye catching reality.

For more information visit www.printedglasssolutions.com or call their team on 01371 870418.

Enquiry 61

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Enquiry 61
A High Performance From Remmers

To complement their recently refurbished showroom, a new ‘high tech’ workshop has been constructed at Charles Hurst Ferrari, the official Ferrari dealer in Northern Ireland. Remmers UK Ltd along with McAulhagn and Harvey Contractors were appointed to oversee the installation of a flooring system in keeping with the Ferrari brand and suitable for a workshop environment.

The existing old concrete floor in the workshop was constructed in several slabs and therefore a high potential for movement existed. The floor was required to be filled and drained prior to the application of the new flexible surface finish. The system proposed by Remmers was a flexible 3mm visco elastic PUR resin system with a polyurethane seal coat. The seal coat has integral R11 slip rating and a high degree of chemical resistance. www.remmers.co.uk

Enquiry 62

Enquiry 63

Global Law Firm Specifies Style Again

Following the successful installation of various moveable wall systems at the Aberdeen and Bristol offices of global law firm, CMS Cameron McKenna LLP. Style has installed four Skyfold vertical-rising automatic walls and two sliding partitions at the new London offices. Dividing meeting rooms, a presentation suite and training areas, the combination of partitions creates a visually impressive solution to meet the demands for space flexibility.

Style was specified by MCM Architects to work with main contractor, (SG), to design and install a complex configuration of moveable walls at CMS’s recently refurbished offices in London. Style advised using two smaller Skyfold partitions, finished in clean white laminate, to separate the meeting rooms. Two larger Skyfold walls, both with fabric finishes, enable the expansive, open-plan presentation suite to be split into up to three individual rooms. All units have the impressive acoustic rating of 59dB, ensuring privacy between areas.

Two semi-automatic DOMMA Variflex sliding partitions, also finished in white laminate, offer adaptable room arrangements for the training areas. A highly versatile moveable wall, Variflex panels are manufactured separately to the frame, making them entirely interchangeable and replaceable. Contributing to the super aesthetics of CMS’s new offices, a flush telescopic panel creates a seamless appearance when the sliding wall is in position. Simplifying use even further, an unusually long transfer track allows the panels to be housed remotely from the training area. www.style-partitions.co.uk

Enquiry 64

Bringing Art To The Heart Of The Campus

ROCKPANEL® façades have formed the stunning canvas for a specially commissioned, three storey carving on the new ‘Heart of the Campus’ building at Sheffield Hallam University.

The themes explored in the artwork by Artist Christopher Tipping are conveyed through dynamic mark making and linear drawing, routed into the ROCKPANEL surface. The work evokes the history of cutlery & silversware manufacture in the city via techniques associated with it. The art was incorporated within the east elevation of the design from the initial planning stage and HLM Architects required a rainscreen façade which would support and enhance this, whilst providing a highly durable finish. This led to the specification of ROCKPANEL Redclad. Specified in Umber Grey and Stone Grey, the 10mm thick boards were CNC routed, exposing the compressed stone wool base material to a depth of 2mm. The base material has now weathered from a pale yellow-green to a rich dark brown, beautifully highlighting this stylish artwork. www.rockpanel.co.uk

Enquiry 65

The Battle of Britain Memorial, located at Capel-le-Ferne in Kent, is a monument to airmen that flew in the infamous Battle of Britain in 1940. A new addition to the memorial site is a 3.5 million pound state-of-the-art visitor centre called ‘The Wing’, which has been designed to replicate the shape of RJ Mitchell’s iconic spitfire wing with its distinctive uplift. Vital to the success of this new building was its flat roof, which is highly visible and plays an integral part in creating the Wing’s overall appearance.

The building consists of three main roof areas, with one central core roof separating the adjoining two wing shaped sections, totalling over 700m2 in all. Bauder’s anthracite coloured Thermofol single ply membrane was specified for the waterproofing because it is long lasting, visually appealing and allows for minimal penetrations of the roof. The system build-up also included Bauder’s 160mm PIR insulation for superior thermal performance, ensuring the roof achieved the required 0.16 U-Value.

A particularly challenging element of this roof installation was the amount of intricate detailing requirements, due to the elliptical shape and 5º pitch of the wing areas. Welded roof profiles were also incorporated on the wings to give the appearance of a standing seam metal roof, demanding a high degree of skill and workmanship from Bauder approved contractor Byford Roofing to ensure that all the profiles lined-up perfectly along the hips and valleys of the roof.

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Nick Lawn, project specifier from Godden Allen Lawn stated, “The roof is one of the main features of ‘The Wing’ and its construction presented us with numerous challenges, as some quite complex detailing was required. The Bauder single ply system has proved to be a very attractive, practical and cost effective solution and the support from the Bauder technical team has been excellent throughout.”

This landmark building offers an audio-visual experience in one half of the building and education facilities in the other, together with a café in the circular central area and a first floor balcony offering views across the English Channel. The Wing was officially opened to the public in March 2015 by the Queen who met with some of the last remaining members of the aircrew that defended Britain during the battle.

www.bauder.co.uk

Enquiry 65
VMZINC Roof For £6.8M Cambridge Uni Project

A VMZINC standing seam roof in QUARTZ-ZINC® has been installed on the £6.8 million Ash Court student accommodation project at Girton College Cambridge. The development, designed by Allies & Morrison, is an extension to the Grade II-listed college and an addition to the 2005 archive and library extension on the edge of the college’s envelope of green belt exemption. It comprises 50 en suite bedrooms, a fitness centre and indoor swimming pool. Passivhaus principles were followed in the energy-efficient design as a consequence of ambitious environmental targets set by the college. Use of triple-glazed windows, heat recovery ventilation systems, photovoltaics, ground source heat pumps and an upgraded heating system resulted in RIBA Special Sustainability and Green Apple awards. The pre-weathered zinc will continue to patinate naturally but will retain its consistent overall colour. QUARTZ-ZINC is just one of the range of colours which VMZINC produces, others including ANTHRA-ZINC® and the PIGMENTO® range of blue, red, green and brown. www.vmzinc.co.uk

Enquiry 66

Advanced Emergency Lighting For Sheffield University

A landmark, £11.6 million new building at the University of Sheffield has been equipped with the industry-leading Lux Intelligent emergency lighting test system from Advanced Lux Intelligent, ensures all emergency lighting is compliant and functioning with no engineer intervention required, saving money, time while maintaining compliance.

The system can be retrofitted onto existing wiring and luminaires, keeping installation costs to a minimum. It is one of the most flexible systems available in the market. The system can be retrofitted onto existing wiring and luminaires, keeping installation costs to a minimum. It is one of the most flexible systems available in the market. The Pam Liversidge Building installation comprises 180 3W LED emergency downlighters, and 70 edge-lit LED luminaires. In addition there are 40 8W fluorescent bulkheads, 40 IP65-rated 8W fluorescent bulkheads and seven decorative anti-panic floodlights. Each luminaire complies with the Industry Committee for Emergency Lighting (ICEL) recommendations and Advanced has full ICEL 1004 approval for the re-engineering of luminaires for emergency lighting use. www.luxintelligent.com

Lux Intelligent is now available with cloud data storage and live system fault and compliance monitoring via a smartphone and tablet apps and web browsers. Users can add any site in their portfolio to the cloud service and get live system data from site, right down to device level. Fault, test and maintenance reports can be generated from a whole site right down to individual devices. These can be shared with colleagues or maintenance partners in a B/S.

The new installation is in the Pam Liversidge Building, home to the University’s Engineering Graduate School, which was recently completed. The seven-storey building required a fully addressable emergency lighting test system and Lux Intelligent system was selected on the basis of quality, reliability and full compatibility with the identical system in the adjoining ChELSI Building, as well as many other buildings across the university. The Pam Liversidge Building installation comprises 180 3W LED emergency downlighters, and 70 edge-lit LED luminaires. In addition there are 40 8W fluorescent bulkheads, 40 IP65-rated 8W fluorescent bulkheads and seven decorative anti-panic floodlights. Each luminaire complies with the Industry Committee for Emergency Lighting (ICEL) recommendations and Advanced has full ICEL 1004 approval for the re-engineering of luminaires for emergency lighting use. www.luxintelligent.com

Enquiry 68

The Transformation Of A Coastal Artillery Fort, Into A Hospital And Now High End Luxury Residences...

New life has been brought to the former Bartlet Hospital, with Gipping Homes transforming it into 34 luxurious residences, while maintaining the beautiful features of this Grade II* Historic Site. Bartlet Hospital closed in 2008 and had fallen into a state of disrepair, until Gipping Homes took up the challenge of giving it a new purpose.

With the hospital being Listed, serious consideration had to be given to ways of raising thermal performance and comfort levels to modern standards. Draughty, single glazed windows were a particular concern, so Selectaglaze was approached for advice.

MD of Gipping Homes explains: “I first heard about Selectaglaze from a trade magazine feature. I was impressed with the product knowledge of the Technical advisor I spoke to, who then spent time with us on site working out how to overcome some intricate issues with this historic building. We went ahead with having secondary glazing in the show apartment which we were very happy with and have since been happy to extend the business partnership into other dwellings.”

Selectaglaze has so far installed in excess of 100 bespoke units from its slim line range, including vertical and horizontal sliding units, all glazed with toughened safety glass and fitted with high performance seals. Established in 1966 and granted the Royal Warrant in 2004, Selectaglaze are the secondary glazing specialists. For further details, please contact the marketing department on: T: 01727 837271, E: marketing@selectaglaze.co.uk or visit: www.selectaglaze.co.uk

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Enquiry 68
York Handmade Plays Pivotal Role In Art Gallery Redevelopment

The award-winning York Handmade Brick Company has played an important role in the £8 million redevelopment of York City Art Gallery. York Handmade, based at Alne, near Easingwold, supplied a selection of handmade and machine-made bricks to ensure the late-Victorian exterior of the art gallery was maintained.

York Art Gallery reopens on August 1 this year after an £8 million development which has increased exhibition space by 60 per cent and led to the establishment of the Centre of Ceramic Art (CoCA). The development will create a suite of three galleries to show ambitious and high profile exhibitions, extra learning space and a new artists’ garden, which will link to the existing York Museum Gardens. A newly-built first floor South Gallery and a new gallery in the original Victorian roof space will become CoCA, which will showcase work from the most extensive collection of British studio ceramics in the country.

Guy Armitage, director of York Handmade, commented: “We supplied bricks both for new South Gallery wall and the north-facing wall, by the new pathway leading from the Museum Gardens to Exhibition Square next to the Bar Walls. It was crucial we got the look right, otherwise the walls would have looked completely out of sync with the rest of the restored building. Overall the value of the job was £30,000, with more than 22,000 bricks used in total to match the Victorian originals. We worked closely with the architects Simpson and Brown of Edinburgh and the main building contractors Simpsons of York and are absolutely delighted by the result.”

Phil Rhodes, site manager of Simpsons of York commented: “It was a pleasure to work with York Handmade. The standard of the bricks they supplied was first class and the end product looks excellent. It was a job very well done.” www.yorkhandmade.co.uk

Enquiry 70

T&R Wood Flooring Joins Design Spec
At Chic Concord House

Five Kährs’ wood floor designs are being supplied, by T&R, at Concord House. Located in Birmingham City Centre, the stunning development is housed in an expansive 1930’s building, formerly occupied by Debenhams.

The new homes have a strong, eclectic feel and showcase the design talents of a host of local firms: Kährs’ Artisan designs, which each feature a combination of colour and texture treatments, were chosen to reflect the ‘vintage industrial’ look. All flooring is being installed by Elevate Design Build and the project is due for completion this summer.

The £10 million development, will include 15 New York style loft apartments, ranging from 1,100 to 2,800 sq ft, and four luxury penthouses, up to 4,000 sq ft in size. The wood floors specified are one-strip designs, crafted from knotty, sustainable oak and pre-finished with oil. They include nut-toned Oak Concrete, which is brushed, handscraped and bevelled, and Oak Slate, which has an additional smoke treatment, to give the floor a grey-tinged tone.

For more information, please contact T&R Floorcovering Distributors Ltd on tel. 0115 925 7711, email info@trflooring.com or visit www.trflooring.com and www.concord-house.co.uk

Enquiry 69

LEDBar Helps Put On A Show

The wonderful art deco Prince Edward Theatre in London’s Old Compton Street designed by Edward Stone in 1930 now benefits from some 21st Century Lighting supplied by Light Projects.

Specified by Lighting Designer’s Pritchard Themis, the lighting plays an integral part of the innovative, exciting and dramatic scheme to illuminate the iconic façade of this Delfont Mackintosh theatre, currently home to Miss Saigon.

Used to highlight the building’s art deco arches and high level architectural detailing to great effect, the LEDBar is perfect for this kind of application where detailing and architectural features need to be emphasised.

Lensed LEDBar is a linear LED system available in a range of different white colour temperatures. Here, warm white (3000K) modules with a 66.7mm LED spacing were used to lift out the architectural features at both low and high level to create a seamless flow of light, while 30° and 60° lenses ensured the light was applied exactly where it was wanted.

The LEDBar Family has complete range linear LED Lighting systems for all applications. These include StatFlux, CrossFlux, LEDBar Nano, LEDBar Mini and LEDBar Lensed. Suitable for both interior and exterior applications, the ranges are available in a comprehensive variety of sizes, colour temperatures, beam angles and module lengths to suit every scheme.

Information about this innovative new range is available from Light Projects on 020 7231 8282 or visit www.lightprojects.co.uk. More information on the lighting designers Pritchard Themis and their works can be found at www.pritchardthemis.com

Enquiry 71

at work

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York Art Gallery reopens on August 1 this year after an £8 million development which has increased exhibition space by 60 per cent and led to the establishment of the Centre of Ceramic Art (CoCA). The development will create a suite of three galleries to show ambitious and high profile exhibitions, extra learning space and a new artists’ garden, which will link to the existing York Museum Gardens. A newly-built first floor South Gallery and a new gallery in the original Victorian roof space will become CoCA, which will showcase work from the most extensive collection of British studio ceramics in the country.

Guy Armitage, director of York Handmade, commented: “We supplied bricks both for new South Gallery wall and the north-facing wall, by the new pathway leading from the Museum Gardens to Exhibition Square next to the Bar Walls. It was crucial we got the look right, otherwise the walls would have looked completely out of sync with the rest of the restored building. Overall the value of the job was £30,000, with more than 22,000 bricks used in total to match the Victorian originals. We worked closely with the architects Simpson and Brown of Edinburgh and the main building contractors Simpsons of York and are absolutely delighted by the result.”

Phil Rhodes, site manager of Simpsons of York commented: “It was a pleasure to work with York Handmade. The standard of the bricks they supplied was first class and the end product looks excellent. It was a job very well done.” www.yorkhandmade.co.uk

Enquiry 70

T&R Wood Flooring Joins Design Spec
At Chic Concord House

Five Kährs’ wood floor designs are being supplied, by T&R, at Concord House. Located in Birmingham City Centre, the stunning development is housed in an expansive 1930’s building, formerly occupied by Debenhams.

The new homes have a strong, eclectic feel and showcase the design talents of a host of local firms: Kährs’ Artisan designs, which each feature a combination of colour and texture treatments, were chosen to reflect the ‘vintage industrial’ look. All flooring is being installed by Elevate Design Build and the project is due for completion this summer.

The £10 million development, will include 15 New York style loft apartments, ranging from 1,100 to 2,800 sq ft, and four luxury penthouses, up to 4,000 sq ft in size. The wood floors specified are one-strip designs, crafted from knotty, sustainable oak and pre-finished with oil. They include nut-toned Oak Concrete, which is brushed, handscraped and bevelled, and Oak Slate, which has an additional smoke treatment, to give the floor a grey-tinged tone.

For more information, please contact T&R Floorcovering Distributors Ltd on tel. 0115 925 7711, email info@trflooring.com or visit www.trflooring.com and www.concord-house.co.uk

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LEDBar Helps Put On A Show

The wonderful art deco Prince Edward Theatre in London’s Old Compton Street designed by Edward Stone in 1930 now benefits from some 21st Century Lighting supplied by Light Projects.

Specified by Lighting Designer’s Pritchard Themis, the lighting plays an integral part of the innovative, exciting and dramatic scheme to illuminate the iconic façade of this Delfont Mackintosh theatre, currently home to Miss Saigon.

Used to highlight the building’s art deco arches and high level architectural detailing to great effect, the LEDBar is perfect for this kind of application where detailing and architectural features need to be emphasised.

Lensed LEDBar is a linear LED system available in a range of different white colour temperatures. Here, warm white (3000K) modules with a 66.7mm LED spacing were used to lift out the architectural features at both low and high level to create a seamless flow of light, while 30° and 60° lenses ensured the light was applied exactly where it was wanted.

The LEDBar Family has complete range linear LED Lighting systems for all applications. These include StatFlux, CrossFlux, LEDBar Nano, LEDBar Mini and LEDBar Lensed. Suitable for both interior and exterior applications, the ranges are available in a comprehensive variety of sizes, colour temperatures, beam angles and module lengths to suit every scheme.

Information about this innovative new range is available from Light Projects on 020 7231 8282 or visit www.lightprojects.co.uk. More information on the lighting designers Pritchard Themis and their works can be found at www.pritchardthemis.com

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at work
Little Coombe Farm, down on the coast of Devon, is considered to offer the most comfortable and glamorous form of camping – or Glamping – possible with two pairs of cedar clad yurts providing every creature comfort in a woodland setting overlooking a beautiful river valley and just in case the West Country weather isn’t warm enough, there’s even Timóleon’s underfloor heating to keep the glampers comfortable.

Yew Yurt and Phasian Yurt each comprise an eight metre diameter main structure containing the master bedroom suite, complete with shower room, toilet and spacious lounge/kitchen/diner, leading onto a four metre diameter satellite with the second bedroom as well as a wet room and across the dumbbell shaped floorplan, Timóleon’s LowBoard system – part of the manufacturer’s well proven range – has been installed to deliver controllable warmth within accommodation where radiators would look as out of place as a staircase. While the construction of the LowBoard panels helps keep overall floor depth to a minimum, Timóleon’s Technical Design Service created an installation layout to respect the circular floor plan within accommodation where radiators would look as out of place as a staircase. While the construction of the LowBoard panels helps keep overall floor depth to a minimum, Timóleon’s Technical Design Service created an installation layout to respect the circular floor plan of the ‘Yurts’, able to deliver maximum efficiency from minimum pipe lengths.

The seven pipe runs totalling 360 metres in length are connected back to one of Timóleon’s Axos compact manifolds which measures just 615 x 415 x 100 mm, and that is able to deliver a flow of 310 litres per hour. The system is designed to have a flow temperature of 550°C and a return temperature of 450°C; optimizing boiler performance. The LowBoard system has been laid over a suspended timber floor construction that has insulation within the void depth, while 22 mm thick wooden flooring covers the pipework that still allows good thermal transmission.

A holiday magazine offered this description of the luxury experience available at the Little Coombe Farm yurts, located near Dittisham: “Think woodland walks, hooting owls and back to nature relaxation – and combine with the most comfortable place you can think of – offering everything from dishwasher and Wi-Fi to en-suite shower and underfloor heating. So you’ll be toasty whatever the weather is doing outside.” Back in the more conventional built environment, Timóleon’s underfloor range can offer a full selection of solutions for installing across solid or suspended floor constructions on multiple storeys and suitable for combining with any heat source from biomass or conventional boilers to heat pumps or district heating schemes.

Admirals Quay Development Chooses Trespa

Admirals Quay in Southampton is a residential and mixed-use development that has combined Trespa® Meteon® cladding panels with copper and glass to create a stunning external façade. The location of the development played a major part in the specification for the external façade, as the coastal environment required a material that could withstand the elements of sea, salt and wind. The orientation of the panels was important to give the appearance of a different shade on the development to show the versatility of a single coloured panel when simply installed at 180 degrees so that the light catches the material and provides a different variation of the colour. This versatility is one of the key benefits of the Trespa® Meteon®.

The architects wanted a material that not only offered excellent performance but also superb aesthetic value. Available in a wide choice of colours and effects and tested extensively for weather and UV-resistance, Trespa® Meteon® was the ideal solution. The product is a high-pressure compact laminate (HPL) with an integral surface manufactured in Trespa’s, unique in-house technologies, Electron Beam Curing (EBC) and Dry Forming (DF). The blend of up to 70% wood-based fibres and thermosetting resins, manufactured under high pressures and temperatures produces a highly stable, dense panel with good compressive and tensile strength that performs exceptionally well. 2,000m² of the material in metallic aluminium grey was specified for the main tower. Trespa® Meteon® met all the requirements for the design and build of Admirals Quay, with the panels performing outdoors exceptionally well. Being practically impervious to acid rain, the seafront conditions at Southampton would not prove a problem. www.trespa.com

Lighting Up European Design

The new sports facility at Maldegem in Belgium is another example of how the Kalwall daylight diffusing system is being specified for many different kinds of applications across Europe. It is particularly popular in sports and leisure buildings, swimming pools and schools.

This is a remarkable building of perfect synergy and sustainability where modern building technology is used to create the ideal playing conditions. The building’s north south orientation was specifically designed to exploit in full the use of renewable energy such as solar and daylighting. To combat glare in the main sports hall, Kalwall was chosen because of its unique light transmission as well as its high levels of impact resistance, good insulation and low maintenance.

The Kalwall translucent cladding not only diffuses natural daylight deep into the sports hall, which can be divided into three playing areas, but creates perfect playing conditions by eliminating glare and shadows. The even distribution of light allows players to distinguish markings on the floor as well as to easily spot balls and backboards. This solution also means that there is no need for blinds, curtains or external shading. With increased natural daylight and resistance to solar gain, energy-consuming artificial lighting and air-conditioning costs are dramatically reduced.

Technically, the translucent panels are highly insulating, with U-values as low as 0.66W/m²K or further increasing to 0.280W/m²K when an aerogel is added within the panels. Kalwall is distributed in England, Wales and Northern Ireland by Structure UK, a leading supplier, fabricator and installer of glass curtain walling, namcann, glass atria, windows and other architectural glass building products. www.structure-uk.com/kalwall
GLASSOLUTIONS Wins Cambridge Research Centre Contract

An insulated glass façade with computer-controlled integrated louvre-blinds has been installed for the first time in the UK at the new Edin Bennett Building at the Babraham Research Campus in Cambridge.

UK glass and glazing specialist GLASSOLUTIONS won the £800,000 glazing contract for the new energy efficient bio-incubator centre that houses both laboratory and office facilities and is specifically designed to accommodate growing companies. The DULLEX ECLIPSE IC system is manufactured by GLASSOLUTIONS’ sister company Eckelt in Austria and integrates an electrically operated louvre within the cavity providing efficient solar and glare control.

The louvres and other integral parts are thereby permanently protected against weathering and are maintenance free. The thermal insulation of 0.6 W/m²K fulfils all requirements for passive house architecture.

Schuco FW60 curtain walling and neat detailing allowed toggle glazing and silicone sealing of insulated aluminium panels and single glazed glass spandrel panels as well as the glass units containing the automated blinds. The glazing contract also included an 80 sq m glass spiral staircase, which forms an emergency escape route within the flagship building, which is located at the entrance to the prestigious site. www.glassolutions.co.uk

Enquiry 75

Pendock Delivers Towering Performance For St. Barts Project

When an architectural practice, which has established an international reputation through its involvement with huge sports stadia and other major public venues, is chosen to replace a famous London hospital, it can be no surprise that the redevelopment contains some stunning spaces.

When an architectural practice, which has established an international reputation through its involvement with huge sports stadia and other major public venues, is chosen to replace a famous London hospital, it can be no surprise that the redevelopment contains some stunning spaces.

Pendock was awarded the contract to supply the collection of bespoke steel. www.pendock.co.uk

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Timoleon Stacks The Odds In Owners’ Favour For Newbury’s Energy Stakes

Purchasers of the new luxury homes being built alongside one of England’s most famous racecourses will not only have access to attractive local amenities and excellent transport links, but thanks to the developer’s commitment to sustainability and the involvement of Timoleon Limited, residents will enjoy a comfortable living environment with low running costs.

Newbury Racecourse is a high spec development of luxury houses and apartments by David Wilson Homes offering views of the course itself and surrounding countryside, where prices span from £188,000 to £880,000. The three-storey townhouses are being constructed to achieve high insulation standards, while underfloor heating systems from Timoleon’s range have been specified in order to help optimize heat delivery.

In fact David Wilson Homes’ marketing brochure for the development not only promotes the unique setting but advocates the fact that the Newbury Racecourse development is around an hour’s rail journey to Winchester, Oxford and London Paddington as well as highlighting the properties’ green credentials. The publication cites an NHBC report that homeowners can save up to £1400 a year by buying a modern, high efficiency dwelling.

In Owners’ Favour For

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In Owners’ Favour For Newbury’s Energy Stakes
SE Controls Keeps Shoppers Safe At New Matlosana Mall In South Africa

The smoke ventilation system at Matlosana Mall, shopping and entertainment centre in Kerksdorp, South Africa is using SE Controls’ window automation and control panel solutions to ensure it operates perfectly in the event of a fire, allowing smoke-free escape routes to be maintained for shoppers and staff.

Designed by Schauf Vorster Architects, the 1 billion Rand development incorporates more than 140 stores and restaurants, as well as a six-screen cinema within the 85,000m² retail and entertainment complex, which also provides employment to around 3,000 people.

Due to the large areas within the mall and the high volumes of people, effective smoke ventilation is essential to ensure escape routes are kept clear. As a result, SE Controls’ SECO N 24/25 chain actuators are used throughout the retail complex to automatically control windows and Current ventilators, which are linked to a series of SE Controls’ DS2 Type 21 and 23 controls panels.

In the event of a fire, the mall’s smoke sensors trigger SE Controls’ EN12101-2:2003 compliant control panels and chain actuators to automatically open the window and ventilators, allowing smoke to be vented to assist escape. Manual Controls Point (MCP) switches are also incorporated within the design to allow manual actuation of the system.

Russell Crabbe, General Manager with SE Controls Africa, explained: “Fire safety and smoke control is essential in major retail, leisure and entertainment developments, such as the outstanding Matlosana Mall. By working closely with architects and specialist contractors such as Curvent International, we can help create highly effective solutions that are tailored around the needs of specific building designs.”

Further information on SE Controls’ products, solutions and projects can be obtained by visiting www.secontrols.com or calling +44 (0) 1543 443060.

Moduglass Quartet Illuminate Manuscripts At Enfield Library

Extensive refurbishment and redevelopment work at a library in the London Borough of Enfield has included the installation of four large, high performance rooflights from the Jet Cox range.

Improvements include a more comfortable and better lit interior environment to which the Jet Cox Moduglass rooflights will make a significant contribution.

The set of four, five-section Moduglass rooflights have been manufactured and supplied to the main contractor, ready for installation onto the prepared deck. The Moduglass Range is available with the choice of two, three, four or five compartment assemblies, which are conventionally located on top of the manufacturer’s RO16 insulated upstands.

In fact the Moduglass range is compatible with virtually any type of roofing membrane including single ply, hot melt, GRP and lead, copper or zinc. The rooflights themselves are fabricated from polyester powder coated aluminium extrusions to RAL9010, which offer both low maintenance and optimum transmission of natural daylight. The quartz supplied for the Palmers Green project was all finished in white, although other RAL colours are available to order.

Three of these five compartment versions measure 2170 x 3700 mm and one 2170 x 4000 mm and are infilled Double Glazed units - Laminated External/Toughened Internal Electrically operated Ventilation Panels on a remote control system - www.jet-cox.co.uk.

Glazing ‘The Waitrose Way’ In Chester

The VS-1 by GLASSOLUTIONS Saint-Gobain is a new type of curtain walling which is ideal for achieving aesthetically superior buildings featuring large vertical spans of glass or meeting complex designs. It is a mullion only system which the glass wall visually ‘floats’ as the façade of a new high-profile supermarket clearly demonstrates.

The new Waitrose supermarket at Boughton retail centre in Chester signifies one of the biggest investments the retailer has made in a single store. The 29,000 sq. ft store was built by contractors Barr Construction, with local materials and using alternative construction techniques to minimise carbon emissions. Benefitting from the GLASSOLUTIONS VS-1 mullion-only curtain walling system, this vibrant and distinctive building allows plenty of natural light into the store.

The building’s stunning design includes large, continuous vertical expanses of curtain walling which are achieved through the VS-1’s unique design. The 10.5m mullion spans were achieved without the need for mid-point lateral load restraint from horizontal mid-span steel. 3.5m high glass panes are solely supported by the structurally robust mullions allowing uninterrupted vertical sightlines in this transom-less system. After the first design concepts were approved, it was thought that a bespoke system might have been the only option to deliver the architect’s vision. GLASSOLUTIONS, however, was able to demonstrate otherwise with the VS-1 system, which is available in a range of sizes, and reduce façade lead times and costs significantly.

The store’s bronze rainscreen cladding is matched sympathetically by the exterior real bronze fins carried on the VS1 system, which are achieved through the VS-1’s unique design. The 10.5m mullion spans were achieved without the need for mid-point lateral load restraint from horizontal mid-span steel. 3.5m high glass panes are solely supported by the structurally robust mullions allowing uninterrupted vertical sightlines in this transom-less system. After the first design concepts were approved, it was thought that a bespoke system might have been the only option to deliver the architect’s vision. GLASSOLUTIONS, however, was able to demonstrate otherwise with the VS-1 system, which is available in a range of sizes, and reduce façade lead times and costs significantly.

GLASSOLUTIONS utilised SGG COOLITE® SKN16® glass to help achieve an optimum interior environment which balances natural lighting with solar control and superior thermal performance. Complementing the VS-1 façade, GLASSOLUTIONS was also appointed to install glazing for the north and south entrance lobbies using the SPIDERGLASS® bolted glazing system. This ensured consistency with the rest of the building and meant Barr Construction could benefit from a single sub-contractor for all glazed façade elements.

www.glassolutions.co.uk

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Enquiry 76
LG is one of the prime suppliers of air conditioning equipment across the globe and is rapidly building its market share in the UK. Its reputation is growing as more and more customers select LG products. One such customer is leading engineering consultancy, Cundall. As soon as you arrive at reception on the fourth floor of its new offices in the heart of Birmingham, you know these are very special offices – a great place to work and a great place to meet up with the Cundall team.

Vital to their staff and visitors to the building needed to be comfortable and that’s where LG came into the equation, providing the most advanced heating and cooling equipment, but importantly the most easily controlled environment, using complex but simple to operate equipment so Cundall’s team was always in control.

Cundall retained access to the landlord’s centralised air handling plant whilst renewable energy was harnessed by the VRF heat pumps. Distributor LG Comfort Cooling, who specialise in the supply of LG equipment, provided two LG Multi V IV heat recovery VRF units providing a total of 56kW of cooling and 63kW of heating to eleven individual indoor units across the office.

The heat recovery units enable the indoor units of the system to operate independently of each other in either cooling or heating modes – increasing the responsiveness across the floor space. The performance of these VRF units is genuinely sector leading with, in the case of synchronised operation, the total rate of return – both in cooling (EER) and heating (COP) - able to reach 8.5. The system is controlled by LG’s AC Smart Premium touch screen central control. It features a user-friendly, high-resolution, graphic user interface (GUI) with a 10.2 inch touch screen.

Selecting the AC Smart eliminated the need for a dedicated third-party Building Management System (BMS), cutting further cost for BMS hardware and integration. The AC Smart is simple to use and can if required, be linked to the company intranet. It offers the option of remote control too via the internet, so those responsible for the heating and air conditioning can make adjustments to the system when they are not in the building.

The huge clock towers either side of the building mirror this pattern, with a ‘mini’ cupola on each of their four corners. All 12 cupolas direct the eye upwards to the summit of the building where a verdigris Liver Bird perches eternally on each of the final, central cupolas.

With Cundall, one of Liverpool’s greatest companies, celebrating its 175th anniversary this year, it was time to refurbish the distinctive cupolas of one of its most famous buildings in the world in time for a celebratory flotilla. Kemper System’s 1K-PUR cold-applied waterproofing system was selected to complete the challenging scheme.

The cupolas are of concrete construction and have been protected by various waterproofing systems over the years but water ingress was becoming an issue and in some areas the concrete was failing and had to be repaired to return the surface to its original domed shape. Roofing contractor K Pendlebury & Sons Ltd were appointed by main contractor Quadriga Ltd, specialist restoration contractors, to carry out the challenging task of working at height on the roof in an exposed waterfront location.

The cupolas also influenced the specification. The method of fleece application to The Solution Providers….

Part of Liverpool’s UNESCO designated World Heritage Maritime Mercantile City, the Grade I listed Royal Liver Building is one of the city’s ‘Three Graces’ and a iconic waterfront landmark. The building’s imposing façades are crowned by a cupola in each corner, each forming the roof of a feature boardroom office below.

The cupolas are of concrete construction and have been protected by various waterproofing systems over the years but water ingress was becoming an issue and in some areas the concrete was failing and had to be repaired to return the surface to its original domed shape. Roofing contractor K Pendlebury & Sons Ltd were appointed by main contractor Quadriga Ltd, specialist restoration contractors, to carry out the challenging task of working at height on the roof in an exposed waterfront location.

Kemperol protects Liverpool’s Royal Liver Building

Comments Neilan Symondson from Pendlebury: “Scaffolding was erected on a small area of the roof at a time and an upgrade to localised areas of the roof started to curve and gradually become flat over the top. Pendlebury used a combination of Kemper System’s EP5 primer and quartz sand to create a key on the substrate before applying the liquid Kemperol 1K-PUR resin with brushes and rollers. Kemper System’s 120g reinforcement fleece, cut to size and shape on-site, was then laid onto the wet resin. Finally, further resin was immediately applied over the top to allow complete saturation of the reinforcement fleece in a single wet-on-wet process to provide a totally seamless, monolithic membrane.

For the larger cupolas, the scheme also involved scroll features and termination details and the installation team also painstaking applied the system around the solid granite mini scroll features that surround each of the smaller cupolas.

www.kemper-system.com

Enquiry #1

For these areas, we installed an inverted insulated roof build up, using Kemper System’s V210 cold applied waterproofing system to waterproof the substrate, followed by insulation and then paving. The Kemperol 1K-PUR we used for the cupolas works in the same way, with a combination of liquid resin and reinforcement fleece, but it is much more viscous than the Kemperol V210, making it more suitable for the cupolas’ vertical surface.”

Pendlebury selected the Kemperol 1K-PUR systems following trials carried out prior to commencing the project to ascertain the best approach to delivering the project with the level of finish required by the building’s management company, CBRE, and English Heritage while managing the time constraints of the project. The challenging weather conditions of the building’s waterfront location and the need to identify a system that was suitable for the varying surfaces on and around the cupolas also influenced the specification. The method of fleece application and ease of use of the Kemperol system was ideally suited to meeting these criteria on a scheme that involved working up to 14 storeys high. The installation team began the restoration of each cupola by repairing each concrete structure using Kemper System’s primer mixed with quartz sand to make a mortar that could be used to build up the eroded areas.

The large cupolas have a two metre high vertical surface before the structure starts to curve and gradually become flat over the top. Pendlebury used a combination of Kemper System’s EPS primer and quartz sand to create a key on the substrate before applying the liquid Kemperol 1K-PUR resin with brushes and rollers. Kemper System’s 120g reinforcement fleece, cut to size and shape on-site, was then laid onto the wet resin. Finally, further resin was immediately applied over the top to allow complete saturation of the reinforcement fleece in a single wet-on-wet process to provide a totally seamless, monolithic membrane.

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www.kemper-system.com

Enquiry #2
Howe Green Provides Easy Access To Essential Services At Southmead Hospital

Over 100 Howe Green Visedge access covers have been installed at Bristol’s £430 million state-of-the-art Southmead Hospital, where the final phase of redevelopment is underway. With the floors of the new super hospital facing heavy foot traffic from visitors, patients and staff each year, a heavy duty and tamper-resistant solution was required to provide access to under-floor drainage and services.

Howe Green’s Visedge covers offered the most cost-effective and low maintenance solution and they were fitted by AC Flooring for main contractor Carillion. Easy to install and unobtrusive in design, Visedge covers are double-sealed to meet the highest standards of hygiene and security. The range was specifically developed for use with flexible sheet flooring systems its excellent resistance in highly trafficked areas is proven.

Unlike similar products, the Visedge Series also allows sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC sheet flooring, which can include PVC or linoleum, to be locked into the cover and frame by hot welding to a PVC. Howe Green manufactures a comprehensive range of access cover solutions for floors, walls and ceilings including bespoke specifications with no added premium to pay. They also supplied 7500 Series stainless steel access covers to Southmead. These were installed in ground floor areas of the hospital, where a heavier loading for service vehicles and bulky medical equipment was required.

7500 Series panels have a standard depth of 75mm with a minimal show-edge for a seamless look. They are suitable for internal and external paved areas and fire-rated options are available at BS476 Part 20: 1987. Built by main contractor Carillion and designed by BDP, the Southmead Hospital was constructed for North Bristol NHS Trust complete with 800 beds, 24 theatres, patient gardens, a public square, a helipad and multi-storey car park.

With Howe Green’s robust and maintenance-free access covers installed throughout the building, both client and contractor can be reassured that the under-floor drainage systems will remain safely concealed and that gaining access for routine or emergency maintenance will be reliably straightforward.

www.howegreen.co.uk

Enquiry 83

Return To Rise Hall: This Time The Kitchens Get It!

Granite Transformations has returned once again to Rise Hall, the magnificent 19th century manor house restored by TV’s Sarah Beeny and artist husband Graham Swift, and this time the kitchen makeover specialist has actually helped transform two kitchens, the Butler’s Pantry and an ensuites installation in the hall managers’ live-in quarters. Previously, the home improvements company has focused its skill on beautiful, bespoke bathrooms, styled by Sarah and Graham, the success of which prompted Granite Transformations to diversify into bathroom remodeling, alongside its core kitchen business.

“We found working alongside Sarah and Graham most inspiring, since they explored fresh applications for our surface finishes,” says Chief Operating Officer, Danny Harston. “Even on this phase, they’ve managed to challenge us with an ensuites kitchen and elegant upgrade of a classic butler’s pantry.”

Rise Hall was the star of two Channel 4 documentaries, chronicling the restoration of this 197-room mansion in East Yorkshire, which is now rated as one of the North East’s finest wedding and conference venues. Sarah and Graham’s passion for Britain’s heritage and their attention to design detail are evident throughout, as is their use of functional and sympathetic new materials like Granite Transformations’ quartz, granite and recycled glass surfaces.

This time it saw the countertops in the Butler’s Pantry, which is used by long-term guests and features a self-catering private kitchen facility for wedding parties. The original stone floor was retained in this high traffic area and a tough, luxurious Sachi granite finish was overlaid onto worktops, extended upwards as grease-resistant splashbacks and oven surrounds. Simple white shaker-style doors grace the cabinets, transforming the space into a relaxing yet purposeful breakfast area for guests.

Custodian and curator Helen Davies and her partner, Estate Manager Craig, live on-site and manage the term guests and features a self-catering private kitchen facility for wedding parties. The original stone floor was retained in this high traffic area and a tough, luxurious Sachi granite finish was overlaid onto worktops, extended upwards as grease-resistant splashbacks and oven surrounds. Simple white shaker-style doors grace the cabinets, transforming the space into a relaxing yet purposeful breakfast area for guests.

The Black Diamond recycled glass work surfaces and full-height splashbacks, installed by Granite Transformations, tone with the marble-effect fireplace and create a corner of restrained style. White cabinets team with the room’s main walls and doors to minimize the visual impact, whilst looking smart and clean.

For further enquiries and details of nearest showroom, contact 0800 044 5393 or visit www.granitetransformations.co.uk

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