RAK Ceramics is launching a wood-effect porcelain tile collection. New Hemlock combines a stunning natural aesthetic with supreme performance features. Replicating a wood finish onto porcelain, it provides an eco-friendly, versatile and highly durable surface in pristine tonal mixes.

www.rakceramics.co.uk

The owner of an aspirational self-build home, featured on the television series, “Building the Dream”, has made use of two different systems from underfloor heating specialist Timoleon to create a comfortable and controllable environment within the highly insulated structure.

www.timoleon.co.uk

Kronodesign’s new Mirror Gloss range is the result of one of Kronospan’s biggest investments in product research and development. Mirror Gloss required the construction of an entirely new multi-daylight press, a tailored resin formula, and the development of a new process of timings, pressure, heat and cooling to create a remarkable mirror finish.

www.kronospan.co.uk

UK Veneering combines a wealth of traditional veneering skills with technology based manufacturing. One recent project was the Emirates Stadium in London, home of Arsenal FC. Wall panels and table tops were finished in American Walnut and European Oak, creating a stunning visual effect.

www.veneering.com

Flowcrete developed a unique flooring solution especially for the new National Aquarium Denmark, Den Blå Planet (The Blue Planet), which reflects light to create a captivating underwater illusion.

www.flowcrete.co.uk

If you would like to receive further information about any of the products and services featured in this issue, just email us at info@link2media.co.uk, type ‘atb114’ in the email title, include the enquiry numbers of interest and your contact details. We’ll do the rest! (If you’d prefer to fax the information, it’s 0845 862 8639, or you can even post it to us!)
To deliver the best in education, schools need to constantly evolve and improve. For the design and construction of a new state-of-the-art £22.5 million building for one of the best performing grammar schools in the country, Balfour Beatty has demonstrated just how much can be achieved through a meticulous and sustainable planning, design and construction process.

With a clear focus on sustainability and innovation, St Ambrose College in Hale Barns, Altrincham has been designed by architects Sheppard Robson and built by Balfour Beatty for Trafford Council to provide a high performance school with cutting edge teaching facilities. The new building needed to respond to the brief to create an open visible integrated learning community which would complement its surroundings, have reduced energy demands and consider local biodiversity.

From the outset careful consideration was given to the positioning of the new 11600m² college which was set to replace a much outdated sixties building. The new building’s unique Celtic cross shape and design reflected the school’s Catholic faith but also led to complex building challenges and management issues which required close collaboration with building control. The resulting alignment of the building provides a strong axial relationship with the local church and its own chapel, whilst reducing the number of south facing windows to assist in managing solar gain.

As part of the scheme, a 25 metre heated pool and sports hall is located within the sports building and linked to the main building to create a bird’s eye view of a Celtic cross. Within the centre of the building is a three storey open atrium which creates a central heart for the college.

The podiums on the upper floor surround this and provide an area for staff to work both quietly and provide passive supervision within this space. The teaching spaces are divided into different wings across three floors, with each wing designated for a different teaching discipline. Office spaces, music rooms, science labs, a lecture theatre, as well as kitchen and dining areas complete the facility.

Low environmental impact - Balfour Beatty worked with the Client at an early stage in ensuring a series of sustainable initiatives were included in this state-of-the-art school which would result in a building designed to use energy more efficiently. This has resulted in a design Target Carbon Emission of 27.38kgCO2/m²/annum, a reduction of more than 21% from target, giving a 42% improvement on Building Regulations. This has been achieved through a Combined Heat and Power (CHP) power plant which provides the equipment to allow for permanent oil fuelled by oil tanks and meets both the customer’s desire for a building designed to use energy more efficiently.

Other low impact design initiatives that Balfour Beatty incorporated into the build included installed improved envelope performance (insulation and air tightness), mechanical ventilation with high efficiency heat recovery, evaporative cooling, low water use taps and WCs, surface water attenuation and reduced quantities of cut and fill - all helping to reduce artificial lighting requirements and meets both the customer’s desire for teachers’ passive supervision. This leads to an environment that promotes learning and reduces energy demand.

Balfour Beatty installed rooflights which offered a practical solution to ensure the lighting levels within the building are adequate which in turn reduces a building’s CO2 emissions. To further reduce energy efficiency, Balfour Beatty installed DALI lighting control systems which register occupancy and light levels.

Ease of integration - The adoption of Building Information Modelling (BIM) for the construction of the school meant that Balfour Beatty could build a theoretical model which could predict how the building would perform. This eased integration of building services and the elimination of any issues between trades. The approach offers greater site safety through improved planning and alternative re-work, which saves time and reduces costs.

The intelligent school - Understanding how the building operates and being able to control it effectively is essential if it is going to be managed sustainably. St Ambrose College has been fitted with a Building Management System (BMS) which will control the security and fire systems and all other mechanical and electrical controls. This fully integrated system will allow energy usage to be measured and critically analysed and lighting to be turned off remotely when not in use.

With the BMS more advanced when compared to the existing building, the Balfour Beatty Soft Landings Initiative has come into its own engaging with the customer on how to operate the system. This will mean that St Ambrose College will operate as sustainably as it is built. Project Manager for Balfour Beatty Michael Burrus commented: ‘At St Ambrose, our team offered training and familiarisation with the building and its systems. We provided an engineer on site for the first three weeks following handover who worked with the school and their facilities manager in resolving any minor issues and make sure everything ran smoothly.’

Timber reuse - In addition, St Ambrose College and Balfour Beatty collaborated with structural engineers ADGON to develop an array of external furniture from the timber that was felled from the grounds on which the new College now stands. This scheme embodied all aspects of sustainable construction through the use of local specialists rather than national suppliers and remodelling material from the original grounds rather than importing materials.

‘We have enjoyed a very close relationship from groundwork right the way through to final finish. When the inevitable problems occurred, Balfour Beatty involved us in finding an acceptable solution immediately. As Head Teacher I feel as much a part of the construction team as I did with the design team,’ commented Michael Thompson, Head Teacher of St Ambrose College. ‘Balfour Beatty has worked closely to understand what we are about as a school and have developed a good working relationship with our site staff who will eventually take over the management of the building.’

David Ardill, Partner and Design Director at Sheppard Robson commented, ‘Sheppard Robson is delighted to see St Ambrose College completed and we hope our excitement matches that of the staff and students who will now be “living” the design. Collectively we believe the project has encapsulated the spirit of St Ambrose and its ambitions for the future.’

With the school handed over four weeks early and in time for the new school year, this unique building has set a benchmark in terms of school design and is further testament to Balfour Beatty’s ability to create low energy sustainable buildings that provide comfortable environments for people to teach and learn in.

www.balfourbeattycsuk.com

Balfour Beatty’s Showpiece School Set To Transform Education In Trafford

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ISG Wins £8 Million Green Park Project

ISG has been awarded its fifth project at the 95 acre Green Park business community in Reading, taking a circa £8 million scheme to refurbish and reconfigure a commercial office building for owners Oxford Properties. ISG recently relocated its Reading office to Green Park to support its expansion within this key business destination, following continued growth in opportunities within the Thames Valley and M4 corridor.

This latest win sees the contractor carry out a comprehensive Cat A fit out and reconfiguration of the five-storey structure at 450 South Oak Way, and will deliver 102,000 sq ft of Grade A office accommodation, providing flexible options for single or multi-tenant occupation. This refurbishment follows the successful completion of similar building upgrades at the park, and forms part of Oxford’s long-term asset management strategy to address the supply demand gap of Grade A space in the Thames Valley market.

ISG will undertake major structural alterations as part of this project, forming a new entrance and improved open lobby area, and constructing a two-storey cantilevered extension at level three. Four link bridges will be installed across each of the upper levels within the main atrium and a stylish feature staircase will provide access from ground to first floor levels.

ISG is targeting a BREEAM Excellent environmental performance rating for the refurbished office building through the use of high specification building materials and the installation of highly efficient mechanical and electrical services. Externally, the project includes the provision of attractive hard and soft landscaping features, resurfacing the adjacent car park and the construction of a new cycle store featuring roof-mounted photovoltaic panels.

Paul Cossell, managing director of ISG’s Fit Out and Engineering Services business, commented: “We are seeing continuing growth in the volume and scale of project opportunities within the region as businesses take advantage of reduced set up costs and the excellent transport and communications infrastructure. Our Reading office continues to service ISG’s longstanding international customer base, but is also making major inroads within the regional office market as owners, developers and occupiers recognise the significant benefit of working with a highly experienced and innovative sector specialist.”

www.isgplc.com
The New Generation Youth and Community Centre Lewisham, Designed by RCKa

Showcasing innovative sustainable construction and high-quality design, The New Generation (TNG) Youth and Community Centre, a £3.5m new-build venue designed by RCKa, was funded by the UK's last Labour government’s MyPlace scheme, and provides a range of vocational, leisure and support services for the young people of Lewisham, South London.

RCKa worked closely with Lewisham Council, its partners and the local community. The project features the extensive participation of young people, from initial consultation through to detailed design, construction, management and governance of the building and services.

Central to their shared vision was the creation of a democratic and flexible building that responds to the changing demands of its occupants. A dramatic central space ensures complete site levels and forms a vibrant hub to a building that engages and welcomes visitors, and is alive with activity and opportunity. The resulting state-of-the-art building includes a climbing wall, training kitchen and café, multi-use games area, recording studios, health clinic, dance and performance spaces, teaching and conference rooms and an IT suite.

TNG is conceived as an open piece of architecture for young people and local community groups to inhabit and make their own. A consistent structural grid runs throughout the building, defining rooms and wall-openings, whilst measuring and ordering large open plan areas. Undefined and flexible spaces are provided to encourage people to appropriate them in creative and innovative ways, such as the entrance area which can be read as an expansive mid-landing, positively connecting all building levels.

A triple-height wintergarden on the east side of the building is crossed with high-level balconies that provide vital breakout space for all key uses. It acts as a thermal and physical buffer to the external multi-use games area, with surfaces left unfinished to encourage a wider range of uses than possible within the main building, whilst providing as much space as possible within the tight budget.

The main interior presents a warm palette of welcoming materials, with complementary painted joinery and signage. The building’s expansive interior feels comfortable regardless of the number of inhabitants, making it suitable for use by small groups, many multiple users or large community gatherings. Dramatic open spaces, topped by large ETFE rooflights, visually connect all levels of the building with viewing points and stage-like staircases that provide a (visual and metaphorical) theatre for life to unfold.

The completed building is testament to the possibilities and opportunities inherent in a collaborative and community-centric design approach. From inception, the design process has involved – and responded to – the needs of young people and the local community who will bring the building to life.

The project formally opened in June 2013 at the end of a lengthy collaborative journey, and is proving to be a beacon of opportunity and hope for the future. Lewisham Council’s commitment to the future of its young people. Over 800 young people across the borough were consulted through schools, colleges and youth groups.

As well as the young people and local community, RCKa worked with a number of service providers in the Borough to develop a brief for the new building. These included Lewisham College, CABE, Contingent Homelessness Charity, local youth theatres, church groups, the Wells Park Improvement Group, Lewisham PCT, the Football Association and Millwall Football Club Community Project.

The completed building is testament to the possibilities and opportunities inherent in a collaborative and community-centric design approach. From inception, the design process has involved – and responded to – the needs of young people and the local community who will bring the building to life. Since opening, TNG has been an outstanding success with up to 200 young people attending almost every evening from across the borough to take part in both organised and informal activities. www.rcka.co.uk
Multi-Million Pound Innovation Centre Opens In Leicester

A £5.8 million innovation centre on a Leicester science and technology park, which was completed by contractors Willmott Dixon during autumn 2013, has been officially opened by the city’s mayor, Peter Soulsby.

The landmark building, known as Dock, designed by award-winning architects maber, is located next to the National Space Centre at Pioneer Park. Dock is set to house up to 75 new space, science and technology businesses until its 3,000 sq m of incubation units, laboratories, conference facilities and offices. It will also act as a catalyst for lettings all around the park, which aims to address the city’s lack of premises for ‘knowledge economy’ sector companies.

Since handing back the building to owners Leicester City Council in the autumn, more than one third of the work space created has been occupied, including the largest unit. When fully occupied, it is anticipated Dock will provide up to 100 new jobs for the city.

Nick Heath, operations director at Willmott Dixon, said: “Dock is a significant development for businesses within the ‘knowledge economy’ sector in the city of Leicester, and we are delighted to have been able to deliver this project on time and under budget. There have been a series of challenges presented to us throughout the project, which we have worked closely with Leicester City Council to overcome to create a really innovative new building for the city.”

Mark Hobson, Managing Director at maber, said: “Dock has been designed to encourage interaction between the tenants, to help encourage sharing of ideas and knowledge, and we are pleased to hear that the spaces created are helping to promote good rapport between the new businesses in the building. We hope Dock will give Leicester a competitive advantage as it looks to attract more emerging technology firms.”

Leicester city mayor, Peter Soulsby, said: “The official launch of the Dock marks a key milestone in the development of Leicester’s innovation and technology hub at Pioneer Park. By investing in this facility, and creating a cluster of hi-tech businesses, we hope to be able to accelerate the growth of this important industry sector.”

www.willmottdixongroup.co.uk

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New Rewards Package For New And Existing Fila Club Members

Fila has launched a new rewards package for new and existing members of its Professional Installers Club. Available to all trade customers throughout the UK and Ireland, the Club helps support businesses and rewards loyalty with a wide package of rewards and benefits. New features include a brand new Rewards Catalogue, with includes a wide selection of ‘time-focused’ gifts – from golf balls and tool sets, to high value gadgets. All new members will also receive a complimentary ‘H&F Thintulate beanie hat when they join online at www.club.filasolutions.com. Members can access free practical Fila surface care workshops and refresher courses, as well as technical and practical support. The Club’s incentive scheme also provides points for purchases, which can be exchanged for gifts from Fila’s Rewards Catalogue.

Class B Shortage Eased By Engineering Quality Bricks

Britain’s leading independent brickmaker (Edenhall) has stepped up production of its Engineering Quality concrete bricks as clay brick makers struggle to satisfy demand for Class B engineering bricks from merchants, housebuilders and groundworkers in the civils sector. (Edenhall) powered the development of the Standard Engineering Quality (EQ) concrete brick in the 1980s as a high performance and cost-effective alternative to the Class B clay engineering brick. The standard EQ is ideal for the ground works and the civils sector and is approved for use by the regulatory bodies and standards. The company now produces EQ bricks at six of its six sites around the UK, with national coverage to support deliveries both direct to site and to builders merchants in full or even mixed loads of a variety of Edenhall’s EQ brick products.

The Hauraton 2014 LANDSCAPING catalogue

Hauraton LANDSCAPING 2014 catalogue

The Hauraton 2014 LANDSCAPING 100 page catalogue is now available. It includes the RECYTEC® PRO drainage channels featuring FIBRETEC® gratings and technical information on other established RECYTEC® channelling, surface reinforcement grids, edging, point drainage, slot drainage and green roof drainage systems. The e-catalogue can be downloaded from www.hauraton.co.uk

Proven Fire Protection For Timber

Lonza Wood Protection has just launched a brand new website dedicated to its tried, tested and trusted fire retardant treatments for construction timbers and board materials - www.lonzawood.co.uk Both DRICON and NON-COM Exterior treatments, with many years of proven performance, are pressure impregnated through a carefully controlled and Wood Protection Association approved process to provide an assured Euroclass B or C level of fire protection for a wide range of independently certified timber and plywood species.

The Envirograf® HW02E intumescent paint system was recently used in a full 10 minutes fire test, now known as an SBI Rating. The second category is commonly known as ‘Spread of Flame’ protection. This is a fire-rating that is specific to how a particular substrate can prevent a fire from spreading across its surface. An untreated wooden panelled wall would have no resistance to the spread of flame across its surface and cause the fire to spread into the rest of the building. This rating is measured in two classifications: Class 1 or Class 0 Spread of Flame. These two categories are now being replaced with a new internationally recognised test, now known as an SBI Rating.

The Envirograf® product that satisfies these requirements is Product 92 - The E6/VFR Coating Range and the Q/VFR Coating Range

The Envirograf® product that satisfies these requirements is Product 42 - The HW Coating Range.

Fire Protection coatings for Timber Substrates

The Envirograf® HW02E intumescent paint system was recently used in one of the most rigorous fire tests designed for testing coating systems, known as the K210 test. The HW system was applied at 2 coats 8m² per litre per coat onto 15mm tongue and grooved pine-wood profiles, a typical surface cladding (or wooden lining) used in the Scandinavian house sector. The test is designed to evaluate the coverings ability to protect the bearing elements is generally measured in an amount of time that the building element is required to maintain its structural strength; commonly a 30 minute or 60 minute fire rating.

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greenSpec Celebrates Climate Week With New Green Building Website

GreenSpec, the foremost Green Building resource in the UK, celebrated Climate Week (3-9 March, 2014) by launching its new website portal which went live on Wednesday 5th March at 11am. Designed to promote sustainable building products, materials and construction techniques to both design professionals and the self-build audience, the GreenSpec web portal www.greenspec.co.uk features a raft of new exciting interactive design tools to aid specification of Green products.

Originally developed from a joint government-funded project with BRE in 2003, the new redesigned GreenSpec website has been developed to help make identification and specification of green products ever easier. Featuring a simple, clean design the new website helps specifiers to easily navigate around the raft of technical information on the website so that they can quickly find exactly the data they need.

Written by specifiers, for specifiers, the content and layout of the new GreenSpec website has been specifically designed to meet project demands. Therefore an exciting new design feature of the site is the ability for designers and selfbuilders to create an individual profile and project folders. This facility lets specifiers save relevant product and design information from the GreenSpec site within their individual project folders, thus allowing them easy access to all relevant data needed when they come to specify a building by simply logging onto the site.

Manufacturers will also benefit from the reviews since they will be able to see market response to individual products and use this information in future product designs. Only registered website users will be able to review products and the reviews will be moderated by GreenSpec.

Providing architects and specifiers with essential specification details the GreenSpec informative tool highlights the key product areas, and addresses both standard and variable details, from appearance and hardness to colour options. The fully reversible window has a cost effective WER A+ option, and can achieve a low U-value of 0.8 with triple glazing. It also features the patent pending Ahermite, an innovative feature which increases thermal performance and improves the rigidity of the profile:

www.profile22.co.uk

Contact us for more details.
Portakabin Sales Launches Ground-Breaking New Customer Charter
For Its Modular And Single Modular Buildings

Portakabin Sales has launched a highly innovative new Charter which gives its modular building customers the opportunity to recoup up to £25,000 in the unlikely event that it does not deliver on time.

A construction industry first, the Customer Charter provides a firm commitment that Portakabin will complete every building on time as part of its market-leading approach to service excellence and for even greater peace of mind for all its customers. If this is not achieved, one per cent of the contract value will be refunded for every week a project is delayed, up to £25,000*.

Commenting on the launch of the Charter, Simon Ambler, Director of Portakabin Sales, said, “Modular buildings are the solution of choice for a multitude of organisations in both public and private sectors, which need accommodation delivered faster than site-based construction, to the highest quality standards and with the certainty of completion on time and on budget.”

“We have developed this unique Charter and commitment for customers purchasing either our modular or single modular buildings, to highlight the outstanding service levels that we promise to achieve on every project.”

As a leading specialist in the delivery of modular accommodation across the UK, Portakabin offers the widest range of buildings for a diverse variety of sectors including utilities, commercial, education, healthcare, transport, and retail. Buildings can be configured for applications such as offices, training centres, classroom blocks, hospital extensions and clinics – and can accommodate from 10 to 1,000 people.

Portakabin also provides self-contained portable buildings that are manufactured and fitted out in the factory, for siting and use often within a just a day. There is a choice of sizes and specifications to suit any end use and to accommodate up to 15 people in comfort – from shower and changing rooms to marketing suites, security gate houses, canteens, meeting rooms, and secure storage.

The advantages of Portakabin buildings include:
- Programme times reduced by up to 50 per cent
- Highly flexible and innovative accommodation solutions, such as fully glazed modular buildings and the Energy-Saver range – engineered to reduce energy usage by more than 60 per cent
- Enhanced quality and a robust steel-framed construction
- Significantly less impact on the environment
- Manufacture to permanent building standards and in line with the latest Building Regulations
- A wide variety of aesthetic and fitting out options to reduce procurement time even further
- Flexibility, so buildings can be easily expanded, reduced in size, reconfigured or relocated, as customer requirements change.

To further demonstrate its commitment to customer service excellence, Portakabin achieved an overall score of 91 per cent for service and build quality following research with more than 800 customers in the past year. This exceeds industry figures released by Constructing Excellence for 2012, which show that only 83 per cent of customers rated projects 8 out of 10 or better and just 75 per cent scored 8 out of 10 or higher for the service they received (source: UK Industry Performance Report 2012, Constructing Excellence/Glenigan).

For further information about modular and single modular buildings for permanent applications, visit www.portakabin.co.uk

Call +44 (0)1376 518037 today for information on our product range
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Schindler Announces Strategic Alliance With The RIBA

Schindler, the UK’s leading provider of lifts and escalators, has formed a strategic alliance with the RIBA.

The RIBA is a global network of 42,000 architects, which provides standards, training, support and recognition to its members. It is also the voice of British architecture.

Each of the organisation’s registered architects is required to undertake CPD training every year, and as part of the new partnership, Schindler will sponsor the architect’s 2014 CPD programme. Schindler will also be present at selected RIBA events over the coming year and will continue to deliver its own CPD seminars to the RIBA’s members. These RIBA-accredited workshops are designed to help architects develop a better understanding of UK and European lift regulations and the environmental impact of lift installations.

The Schindler Group is a leading global provider of lifts, escalators and related services and so its charitable mission to champion better buildings, communities and the environment through architecture.

"Over the last 10 years, we have supported young architects throughout Europe with the Schindler Award, which has gained an excellent reputation within the European architectural community. By supporting the RIBA’s 2014 CPD programme, we aim to help its members design sustainable, smart cities with horizontal and vertical mobility systems. Together we can shape the future of an ever changing and demanding urban environment." www.schindler.com

Tread Carefully Using the BS 8215 DPC Staircase

Various British Standards have been withdrawn in the past few years but one that remains is BS 8215. If you pick up the latest PD 6697 it currently refers back to BS 8215 as a source for competent construction. Unfortunately, BS 8215 contains errors, and adherence to it will result in a structure suffering dampness. British Standards has in the past confirmed such errors exist which prompts the question of how and why this situation has arisen? A good example concerns stepped and staggered gable abutments and the manner in which abutting sloping roofs should integrate.

At this point it is probably a good time to suggest in your imagination you consider standing at the foot of a staircase with a bucket of water in your hand. Threw the entire bucket of water into the staircase and watch it cascade down from one tread to the next. Now imagine repeating the exercise but this time throwing the water into an open plan staircase. The water fills the treads but continues incongruously between them. With no connecting risers, it travels through, beyond and under the staircase slope.

Protecting a sloping abutment correctly requires a DPC staircase with connecting DPC treads and connecting DPC risers. BS 8215 does the opposite, directing construction every three courses so the arrangement is discontinuous, with a gap between the DPC treads. The failure to provide a continuous DPC staircase to arrest damp permits penetrating water to soak inwardly, via the masonry and mortar. For instance, creating a vertical DPC to a window opening within a cavity wall will result in inward absorption and damp reveals. Gable abutments are no different. Adherence to the BS 8215 stepped arrangement will not prevent damp ingress. The NHBC suggests the use of cavity trays to protect gable abutments as a preferred way of achieving regulation compliance.

Type X cavitrays manufactured by Cavity Trays of Yeovil are specifically designed for use on stepped and staggered intersections. Trays are available to suit all masonry styles, dimensions and thicknesses. Each tray has anti-capillary features and two integral upstands, one at the end and one that rises to the cavity. The rigid end and upstand feature a top edge flex-link to provide positive integration with the tray above it. The upstand in the cavity trims in having an integral fringe so it can adjust to suit the as-built cavity width. Compatibility with the cavity width is maintained regardless of whether the construction is traditional, timber or metal framed. Type X cavitrays also have attached flashings already shaped to suit the roof pitch.

At this point it is probably a good time to suggest in your imagination you consider standing at the gable abutments and the manner in which abutting sloping roofs should integrate.

Commenting on the new sponsorship initiative and alliance with the RIBA, Richard Clarke, Sales and Marketing Director at Schindler said, “The RIBA Sponsorship is one of the most integral partnerships we have undertaken in the UK. Schindler is a patron of the RIBA and our sponsorship will help the organisation achieve its charitable mission to champion better buildings, communities and the environment through architecture.”

"Over the last 10 years, we have supported young architects throughout Europe with the Schindler Award, which has gained an excellent reputation within the European architectural community. By supporting the RIBA’s 2014 CPD programme, we aim to help its members design sustainable, smart cities with horizontal and vertical mobility systems. Together we can shape the future of an ever changing and demanding urban environment." www.schindler.com

Selectaglaze CPD + Networking Opportunities

Throughout 2014 Selectaglaze, the UK’s leading designer, manufacturer and installer of secondary glazing systems will be running a number of events for architects, designers and specifiers. Each event will include their RIBA Approved CPD presentation entitled “Understanding and Specifying Secondary Glazing”, providing an understanding of how specifying secondary glazing can meet required performance levels, looks good, works well, is acceptable to planning or conservation officers and integrates sympathetically with other building elements.

The presentation offers guidance on standards for noise insulation, conserving energy and security and deals with a full range of design issues. Detailed seminar notes will be provided to all participants.

Wednesday 24th May 2014 - Marking 20 years at The Building Centre - This daytime CPD event will include refreshments and give participants the opportunity to mingle and socialise with industry colleagues and present an opportunity to view Selectaglaze’s permanent exhibition Stand. The RIBA approved CPD covers issues such as energy performance, environmental noise problems the provision of security, including certified levels, followed by a Q and A session which will allow more detailed discussions. Established since 1994 and a Royal Warrant Holder since 2004, Selectaglaze is the UK’s leading designer, manufacturer and installer of secondary glazing systems and submits products to rigorous independent test. www.selectaglaze.co.uk
Products can differ considerably, careful selection avoids unwelcome surprises.

Table 1: Examples of moisture creation in buildings

<table>
<thead>
<tr>
<th>Moisture Source</th>
<th>Example</th>
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</thead>
<tbody>
<tr>
<td>Processing</td>
<td>Drying out of wet trades and condensation</td>
</tr>
<tr>
<td>Convective transfer</td>
<td>Transpiration from walls and ceilings</td>
</tr>
<tr>
<td>Condensation</td>
<td>Condensation due to high humidity</td>
</tr>
<tr>
<td>Vapour transmission</td>
<td>Passage of moisture from inside to outside</td>
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For many projects, AVCLs have become the standard to meet requirements such as Part L 2013, which reduces the limit for air tightness from 10m³/hr to 8m³/hr at 50 Pa and which comes into effect from April 2014.

Why is an AVCL necessary?

An AVCL has two basic functions: Controlling the amount of water vapour that travels into the building envelope; and providing an airtight seal when vapour control is needed most. The SD-value decreases as the relative humidity increases, thus reducing moisture transfer towards the insulation when vapour control is needed most. High vapour tightness reduces the capacity of a membrane to allow moisture trapped within the construction to dry out easily.

Diag 1: Air tightness principles

Diagram 1: Air tightness principles

Diagram 3: AVCLs with fixed SD-value in comparison

Diagram 4 & 5: AVCLs with variable SD-value in comparison, Water Vapour Transmission

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Many roof and wall assemblies are only durable if they can dry-out to the interior side as well. In many cases moisture damage can be attributed to the fact that a vapour barrier is practically impermeable in both directions, i.e. it does not permit any drying out.

AVCLs with a variable SD-value offer excellent protection against condensation risk and potential damage of the airtightness layer. The water vapour resistance of a variable AVCL will not only block moisture transmission during the winter months, but also enable drying out of unwanted humidity during the summer months. The higher the SD-value, the higher the humidity resistance during winter conditions, but conversely, the lower the drying out potential during summer weather. High vapour tightness reduces the capacity of a membrane to allow moisture trapped within the construction to dry out easily.

The selection of an AVCL depends on a number of criteria, as for example a high vapour transmission value in areas such as roofs, walls and floors with a diffusion open outer layer. This is a mechanical system with less risk of damage during installation, but can also transmute making it ideal for air-tight insulation applications and can be easily customised for fixing. DuPont™ Airguard® Reflective, 10-0050/Sg/14 Thi is a 100% air and vapour tight AVCL.

DuPont Building Innovations offers a range of AVCL products covering a broad range of applications: DuPont™ Airguard® Control, 1200g/m², which is suitable for roofs, walls and floors with a diffusion open outer layer. This is a mechanical system with less risk of damage during installation, but can also transmute making it ideal for air-tight insulation applications and can be easily customised for fixing. DuPont™ Airguard® Reflective, 10-0050/Sg/14 Thi is a 100% air and vapour tight AVCL.

It has a metallised surface with a very low emissivity which significantly improves its thermal insulation performance, providing an additional 0.58-0.80 m²K/W to the R-value. It is ideal for applications with high humidity that require high vapour resistance; DuPont™ Airguard® Smart is an exceptional membrane with highly adaptable vapour resistance. It helps to protect against structural mould damage due to its high drying out potential, further its flexibility combined with excellent robustness, makes it easy to install and handle.

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Flowcrete developed a unique flooring solution especially for the new National Aquarium Denmark, Den Blå Planet (The Blue Planet), which reflects light to create a captivating underwater illusion. The Copenhagen based aquarium is Northern Europe’s largest and is set to become the country's newest architectural landmark, having already won awards for its stylish design.

The building, by Danish architects 3XN, flows in the shape of a giant whirlpool with organically curving walls, innovatively integrated water features and shimmering floors - all designed to make visitors feel immersed in a marine environment.

A key part of this illusion is the swirling, watery lights cast onto the floor of the aquarium’s viewing areas. To create this required a smooth, light reflective surface, from global resin flooring experts Flowcrete, which was installed using unique application techniques.

To create the desired finish, 6,600m² of Flowcrete Group flooring solutions were installed throughout the aquarium. 5,000m² of the highly resistant, epoxy resin coating Flowcoat TL was used in the public areas and technical rooms of the building and 1,200m² of Flowseal EPW was installed in the stairwells to ensure an easy to maintain, dust free environment. 200m² of the sealer Peran WW was also installed along the walls of the aquarium to provide a hygienic yet simultaneously attractive, gloss finish.

This combination of systems created a smooth, solvent-free, anti-slip floor surface with a crisp colour that would be able to retain its appearance and functionality in the face of heavy use. These high performance coatings can also withstand chemicals and abrasions without deteriorating. The seaweed, food-wearing properties of Flowcrete’s solutions makes them a hygienic but low maintenance choice, as dirt can be easily removed from the surface and won’t be caught in cracks or gaps in the floor.

The Blue Planet opened in March 2013 and soon won the Completed Building Display category award at the World Architecture Festival 2013. Located on the seafront of the island of Amager, the unique shape of the building connects the sea to the land, with pools of water flowing up the sweeping facade which is covered in silver plates that reflect the sky like the sea.

7 million litres of water and 20,000 animals, including hammerhead sharks and moray eels, are contained within the five circulating arms of the building – which is not only an eye-catching design but also highly functional, as each arm contains different themed exhibits and can have extensions built without impeding the other sections.
Coloured Movement Joints By CMJ

CMJ produce bespoke joints for Hard Flooring, Natural Stone and Slate.
They specialize in colour matching our joints to the grout or the floor finish creating a stylish designer look and a seamless finish.

- Colours to match the full RAL range
- Designed and manufactured to exceed BS5105
- Robust, durable and can cope with heavy stresses
- Distributes stresses evenly between the foundation and floor covering preventing “heating” and “pegging”
- Prevents the conduction of noise from footfall and other bodies
- Epoxy infill to provide movement accommodation
- Resistant to puncture and has anti-bacterial properties
- Available in Aluminium, Stainless Steel and Brass

CMJ Movement Joints have been the choice of specifiers for years on prestigious projects including many leading automotive brands such as Ford, Mercedes, Audi and Volkswagen. They are used in car showrooms and workshop areas because of their durability and ability to handle a wide range of loadings.

CMJ were specified for the London 2012 Olympic Village, Marks and Spencer, Airports, Leisure Centers, Restaurants, Retail Outlets and other commercial and domestic applications. CMJ also provide highly competent advice and support. No matter how complex the flooring application CMJ can provide the perfect product, systems and service for specifiers and installers.

For more information visit our new website: www.colouredmovementjoints.co.uk

Enquiry 22

Howe Green Floor Boxes For Better Safety And Lower Electricity Bills

It is a common scene these days in coffee shops, airport terminals and hotel foyers around the world; people on their laptops with a power cord stretched out dangerously to the nearest outlet. Everyone wants to be fully charged it seems and often with no regard to the safety implications or costs involved.

UK access cover manufacturer Howe Green has designed a bespoke floor box solution to help prevent people plugging in where they shouldn’t and to help reduce the risk of unwanted trip hazards in public spaces.

The discreet stainless steel floor boxes were originally developed for the public lounge of the Hilton Hotel at Tower Bridge. Howe Green were tasked with replacing the original floor boxes, which were damaged and in poor condition. As well as being unsightly, some posed potentially serious tripping hazards with lids and cable outlets not sitting flush with the surrounding floor. In several cases, removable box lids had been lifted by members of the public seeking power to charge laptops and mobile devices.

Often, the hotel’s own lamps and equipment had been unplugged in the process, leaving trailing cables across the floor.

Howe Green’s floor boxes were the ideal solution for highly trafficked public areas such hotels, leisure centres, libraries, airports, restaurants and cafés. They have a discreet design with minimal show edge and a series of discreet cable outlets. Most importantly, they are lockable, making them more tamper proof for increased security and safety.

Suitable for all floor finishes, the stainless steel floor boxes will accept an insert to matching their surrounding for a perfectly flush and uninterrupted floor finish. www.howegreen.co.uk

Enquiry 21
FLOOR MATE 300-A Insulation Awarded BBA Accreditation

FLOOR MATE 300-A extruded polyurethane (PUR) insulation from Dow Building Solutions has been awarded a BBA certificate. FLOOR MATE 300-A - which is a TYFORD-A grade manufactured in the UK - is durable enough to be laid beneath concrete floor slabs, and can help to prevent thermal bridges at floor and wall junctions. Thermal conductivity is 0.014W/mK in a 100mm thickness, the product also offers good compressive strength of 380kPa and a high design load of 1380N.

Atb: floors

www.polishedconcretedesigns.co.uk
www.uzin.co.uk
was easy producing a surface exactly as anticipated."

forward, the product and its sequence of applications

Polished Concrete Design said, “The UZIN technical

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1250 m² of flooring at Southend Casino, Essex.

The UZIN Turbolight System was used to install

Refurbishment

Using UZIN’s A Safe Bet for Casino

The UZIN Turbolight System was used to install 1250 m² of flooring at Southend Casino, Essex. The numerous levels and the varying condition of the substrates dictated the need for a product that could cope with all the variants and carry good point loads. Due to the building’s structural restrictions a normal concrete screed would have been too heavy and could only have possessed of 20% of the area at any one time. The solution to each of these required parameters existed with the UZIN Turbolight System. After the initial visit from the UZIN technical team, a specification was formulated between Polished Concrete designs and UZIN which resulted in the

Sika Concrete Admixtures Ensure Fast Turnaround of Concrete Piles

Sika’s innovative concrete solutions are helping to speed up production and ensure a fast turn around of moulds at the Balfour Beatty Ground Engineering precast plant in Nottinghamshire. The plant produces precast driver concrete piles, where high early strength of the concrete is required to allow early release of the piles from the moulds. This not only speeds up production, but also enables the end user to drive the piles as early as possible. Incorporating Sika® ViscoCrete® Premier® concrete admixture technology in the mix helps not only with early strength development but produces a self compacting concrete (SCC). The use of SCC eliminates the need for vibration by increasing the workability and easing the flow of the concrete around the steel reinforcement. www.sikacreateadmixtures.com.co.uk

Refurbishment

Mapei System Specified For Royal Albert Hall Refurbishment

A Mapei system has been successfully incorporated as part of a refurbishment programme at the world famous Royal Albert Hall. The refurbishment process included repair and preparation of the existing substrate and installation of 300m² of Victorian Encaustic tiles. Classic Formati refurbished flooring in main door 12 entrance, the box office and bar area.

The tile installation, a fast drying screen containing Mapei Topcem hydraulic binder was laid as a bonded screed onto a slurry coat containing Mapei Plascrete. Mapei Keraflex Maxi 12 adhesive with low dust properties was specified for bonding the encaustic tiles, with the system being completed by the application of Mapei Ultracolor Plus grout applied to the tile joints. Ultracolor Plus performance grout is a fast setting/drying and flexible product incorporating water-repellent and anti-mould technologies. www.mapei.co.uk

Refurbishment

KNX Brings Technologies Together In An Historic Smart Home Project

A KNX home automation system designed and installed by KNX UK Association members International Lighting Solutions (ILLS) and Bespoke Automation, is central to the conversion of an historic building into a prestigious high end residential property. The Astor is the last of seven restored barns that originally formed part of the Model Farm built by Lord Astor of the Cliveden Estate, Berkshire.

Developer Trenac Estates has created a distinctively smart property where the front door opens into a vast central atrium of living space, with a home cinema entertainment hub surrounded by a state-of-the-art kitchen, six luxurious bedrooms with en-suites and full height windows. Having worked with ILS on the other projects, including the six other conversions at the Model Farm, developer Trenac Estatesonce again called upon their expertise to design a home automation system for The Astor.

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Indeed, in total, The Astor includes 140 lighting circuits, fifteen independent underfloor heating zones and four groups of lantern windows that needed to be controlled. To overcome these challenges and integrate all the home automation functions, a KNX based home automation system was recommended with specialist KNX integrator Bespoke Automation appointed to install the system, capitalising on their vast experience of using KNX for this type of project.

ILLS recommended the robust and proven Beaker B-05 wall switches and room controllers to provide individual control of the underfloor heating. These controllers are in every room and with simple to use interfaces can also control and display data covering the property’s heating, internal temperature, lighting, blinds and windows. The rear of the bedrooms and en-suite, for example, are equipped with blinds operated by KNX and integrated with the lighting and heating controls. All of The Astor’s possible lighting scenes are configured and displayed on its touch screen.

A KNX weather station on the roof supplies rain, wind, temperature and brightness data which is also displayed on a B-iq touch screen. The recorded rain and wind values are used to manage the opening and closing of the lantern windows in the roof of the building. The open protocol of the KNX system also offers new occupants the flexibility to add additional home automation functions easily.

www.knxuk.org

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www.knxuk.org
How To Revitalise The Office And Keep Your FD Happy

For an innovative way to revitalize an outdated office, reception area, boardroom or even a whole unit, Interior Film from David Cleating Ltd could be the perfect cost effective solution. Manufactured by LG Hausys, Interior Film is a self-adhesive, decorative film especially designed for the commercial and shop fitting sectors where speed of refurbishment and minimum disruption is often critical. Interior Film can be applied to almost any interior surface. This enables walls, doors, furniture, skirting and architrave to be attractively and quickly transformed. Offering excellent flexibility and adhesion, Interior Film provides the perfect finish, even to curved or complex shapes. Air free technology enables Interior Film to be easily applied to give a superb bubble free surface. www.davidcleating.co.uk

Mapei Partners With Domus At Second London Showroom

Mapei has once again partnered with Domus at its second London Specification showroom in W1. Situated in Eastcastle Street, “West 5” is an inspirational and practical space which includes an extensive range of Mapei product systems, demonstrating the installation of Domus tiles, mosaics and wood flooring. Onsite technical specification assistance is also available, as well as a calendar of joint and individual events, including Mapei’s seven RIBA-accredited CPD seminars. Mapei’s technical system pages show product build-ups in layers, from substrate preparation and waterproofing through to adhesive installation, grout and sealant. They demonstrate a number of scenarios for tile installation and also showcase how Mapei systems can complement Domus’ porcelain, glass, ceramic and natural stone surfaces. www.mapei.co.uk

RAK Launches Wood-Effect Hemlock Collection

RAK’s Ceramics is launching a wood-effect porcelain tile collection. New Hemlock combines a stunning natural aesthetic with supreme performance features. Replicating a wood finish onto porcelain, it provides an eco-friendly, versatile and highly durable surface in pristine tonal shades. The collection is available in a variety of formats and shades, and is suitable for walls and floors in domestic and commercial applications.

Hemlock is created using the latest in digital printing technology. Precise colour variation and image pixels produce sophisticated wooden graphics on the tile surfaces to give a pristine ‘real’ finish, engineered to last longer with minimal maintenance. The porcelain is fireproof, water and stain resistant, abrasion and impact resistant. It is also resistant to household chemicals and, above all, environmentally friendly. Tiles are available in two formats – 15.2 x 60 cm and 15.2 x 120 cm – and in three on-trend shades: Hemlock Maple, which has a silver grey, light brown and honey tone; Hemlock Carbon, which has a deep grey hue and Hemlock Teak, which has a warm grey/brown tone. www.rakceramics.co.uk

DuPont™ Corian® Introduces More Rich And Beautiful Blacks Made With Pioneering DeepColour™ Technology

As part of its “Endless Evolution” initiative, DuPont has again set the standard in advanced surfacing materials for interior design and architecture. DeepColour™ Technology (a patent pending invention) now enables the creation of dark solid surfaces which offer deeper, more intense and durable colour, improved wear performance, plus easier thermforming, sawing and finishing.

“DuPont™ Corian® solid surfaces are transforming interior design and architecture, thanks to their special combination of properties and performance,” says Eddy Verschaeve, Global Technical Manager for DuPont® Corian®, DuPont Building Innovations. “Through DeepColour™ Technology, we have proposed a superior solution - in terms of fabrication, aesthetics and functionality - in dark colours. Thanks to the versatility of this technology, we will soon be introducing other colours, which will offer the same combination of functionality and beauty, delivering the innovation promise behind our ‘Endless Evolution’ programme.”

DuPont™ Corian® is a high-tech surfacing material with a vast and inspiring range of applications that open up new horizons for design. With its sophisticated combination of beauty, durability and versatility, DuPont® Corian® can be applied to almost any conceivable design scheme or sector, from interior to exterior and whether curved or angular, flat or textured, functional or decorative. Endlessly expansive and inspiring new technologies, DuPont® Corian® offers genuine longevity and confidence in performance. Available in over 80 colours, DuPont® Corian® can be shaped into virtually any conceivable design and is joined seamlessly to create sleek, strong, hygienic and easy-care surfaces.

There is an exciting new design option available in solid surfaces, offering an advanced solution for darker colours and delivering high performance, elegance and reliability.

New DeepColour™ Technology has been used to produce four sophisticated black tones:

- Deep Nocturne, a classic, solid, and ultra-versatile jet black
- Deep Black Quartz, a sleek black landscape offset by an array of ivory specks
- Deep Black Granite, a sleek black landscape offset by an array of white specks
- Deep Black Quartz, a sleek black landscape offset by an array of rust specks

The four colours of DuPont® Corian® made with DeepColour™ Technology will be commercially available in Europe, Middle East and Africa as of 1st February 2014.

For further commercial or technical information about DuPont® Corian® in the UK: T: 0800 962 116 E:sales@corian.co.uk www.corian.co.uk

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New Electric Shower Range Launched By MX

MX Group has unveiled its new ‘QI’ electric shower range – a ‘quick installation’ range of electric showers that sets new standards for simple installation. Featuring 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.

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

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

The exclusive range of Decoflame® bioethanol fireplaces has been designed for the discerning customer who values the outstanding quality and functionality of Danish Design and Craftsmanship and the benefits of an environmentally-friendly product. Designed and produced in Denmark with focus on quality, functionality and safety, a Decoflame® bioethanol fireplace can be positioned literally anywhere – without the need for a chimney, flue or bearing wall. With the introduction of patented cutting-edge CEVB Technology (Controlled Ethanol Vapour Burning) in spring 2012, the Decoflame® e-Ribbon Fire revolutionised the market for bioethanol fires. In close cooperation with architects and interior designers on an international scale, Decoflame has realised a significant number of made to measure bioethanol fireplace installations in restaurants, hotels, offices, homes and palaces world-wide. www.decoflame.com

Laminates Help TV Creators Create

High Pressure Laminate from Abet Laminati has been used to furnish the Media Café in the newly refurbished BBC Broadcasting House in central London. This popular eating and social area has been equipped with a range of furniture created by London designer James Burleigh. The furniture is clad with easy maintenance laminate surfaces using a mix of different options from Abet’s Colours range. Manufactured in 0.9mm thickness and in large 3050mm x 1300mm sheets sizes, the Colours range is a popular choice for surfacing both static equipment and moveable furniture, such as tables. With over 310 different shades and patterns available, designers have an impressive range of colours from which to choose.

The newly-launched ArtLED has been specified by Kevan Shaw Lighting Design and installed by DHA Designs for ‘Only in England’. Photographs by Tony Ray-Jones and Martin Parr, the opening exhibition in the new Media Space Gallery at the Science Museum. It has also been shortlisted as ‘Interior Luminaire of the Year’ at the Lighting Design Awards 2014. Manufactured from extruded and diecast aluminium with an epoxy polyester powder-coated finish, the ArtLED uses the latest Xicato XSM 3,300lm Artist series LED and combines a highly crafted and designed lighting fitting with high CRI (Ra ≥ 90) and colour consistency. The fitting is available with a self-dim facility or Dimmable Via Analogue 1-10V and DALI.

Beam reflector options include 14°, 27° and 52° and a special Wall Wash Reflector allows the ArtLED to be used for a range of different lighting tasks and applications. The advent of a Green Guard Baffle for both narrow and medium reflectors eliminates the large quantity of glare traditionally associated with LED fittings.

In addition, a unique forward throw heat sink, also designed by Light Projects, ensures the cost-saving of the module while maintaining the reflector depth. A proprietary ‘Easy Clip’ cassette facilitates quick change of reflectors and easy addition of accessories.

The ArtLED is fully compatible for use on many existing single and 3 circuit tracks including Eaton, Erco, Emtal, General Electric, Global, LumaFlex and Hoffmeister. It is also suitable for both ceiling and wall mounting. Information about this innovative new range is available from Light Projects on 020 7231 8282 or visit www.lightprojects.co.uk

New Spotlight On Media Space Gallery Art
Kronodesign's New Press Process Puts A Gloss On Surface Shine

Kronodesign’s new Mirror Gloss range is the result of one of Kronospan’s biggest investments in product research and development. Mirror Gloss required the construction of an entirely new multi-daylight press, a tailored resin formula, and the development of a new process of timings, pressure, heat and cooling to create a remarkable mirror finish.

As well as Kronospan’s investment in research and development, the Kronodesign team was able to use its endless global journey – gathering trend intelligence and future market knowledge – to inform the creation of 20 Mirror Gloss decors. The palette includes 14 uni-colours, four wood finishes and two abstract designs for an on-trend interior and furniture collection of surfaces.

Paul Duddle, global ambassador for Kronodesign, says: “By specifying Mirror Gloss, designers can achieve bold and intense statements. Our Mirror Gloss range pushes the limits of conventional melamine surfaces to provide an incredible depth of finish. The decors are tirelessly researched and developed - with commercial sense - to help designers add an entirely new dimension and reflection to an interior scheme or furniture piece.”

Mirror Gloss is currently being specified across many high-end home, office and leisure projects that demand a startling lustre finish, but the product is not exclusive to the luxury market.

The new collection offers high-end lustre finishes from contemporary white, black and greys through to playful uni-colours and rich dark wood surfaces. The varied palette gives designers a crisp Snow White (8685) and Black (0190); on-trend greys like Cool Grey (0191) and Slate Grey (0171); the richly vivid Marmara Blue (5515) and Lime Grass (5519); and the warmth and timelessness of wood grain with a Dark Sevilla Olive (8601) and Dark Lyon Walnut (8754). Mirror Gloss is available on low emission particleboard (PB) - size 2800mm x 2050mm in 18mm - with colour matching ABS edging and HPL. www.kronospan.co.uk
Strictly Kemmlit For Flagship Dance School

The Rambert dance company’s impressive new Ephrussi headquarters on London’s South Bank cements its status as one of the world’s great dance companies. The building features three large dance studios, changing rooms, workshops, technical and administration facilities and a dance archive and reading room.

Architects Allen Morris specified 60 Kemmlit Type S locker systems for the changing room areas. The lockers were made-to-measure in a variety of sizes and colours, some specially adapted for dancers with prosthetic limbs. Kemmlit also supplied slatted solid beech benches seating and a range of accessories to accommodate the dancer’s requirements. The Kemmlit Type S locker system is manufactured from sheet steel with a scratch and abrasion-proof stone-enamelled finish. www.kemmlit.com

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Boston Art Deco Makeover

ArmourFX modular wall panels have been specified within the stunning refurbishment of an original Art Deco tower in Boston’s financial district. The most significant changes occur on the ground floor, where many of the building’s original features include its high ceilings and the Marble granite that lines many hallways.

The ground-floor lobby, designed by Elkus Manfredi, features a new exterior-glass lobby, the interior of which has been clad in large-scale ArmourFX modular wall panels from Armourcoat Surface Finishes Inc. In total 170 panels were created, most with unique dimensions to completely line the walls and create a stunning decorative effect. Armourcoat’s high gloss Venetian plaster finish – called Stipalata – was hand-applied to the 3/4” MDF panels. www.armourfx.com

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First No-Touch Washroom Design Solution Launched

Franke Washroom Systems is launching a brand new concept in the UK with - The Way 2 Solutions - to First No-Touch Washroom Design Solution Launched

Franke Washroom Systems is launching a brand new concept in the UK called the ‘The Way 2 Solutions’ which is a range of no-touch products on display. www.franke.com

This one-stop concept, which has proven very effective throughout mainland Europe, brings Franke Washroom Systems together with Forbo Flooring Systems, Dorma door-locking systems and Etlin Lux LED lighting and textiles to create a complete resource for washroom design and specification for every commercial setting no matter what the budget available from three tiers of specification; economy, business and first-class.

Andy Dalkevin, Managing Director of Franke Simmons explains the thinking. “These partner brands and companies have hundreds of years of combined experience designing commercial washrooms. This new offer means that architects and specifiers can use The Way 2 Solutions with total confidence that what they specify will serve their own customers for many years to come. All products are CE Marked and carry WRAS approvals, in addition many carry the BMA’s Water Label for efficient water use too. Our aim is to save our customer’s time, money and valuable resources in the specification process.”

On The Way 2 Solutions display are: water saving products including touch-free taps, the latest flush controls, low flush WCs, water free urinals, a touch free cubicle and the very latest water control technology from Franke Washroom Systems’ A3000 management system which can be connected or partially connected to a buildings own management system. Completely touch-free washrooms can be specified thanks to a complete range of no-touch products on display. www.franke.com

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3M Shows Wide Range Of Product Innovations At Hotelympia 2014

Diversified technology company 3M will present its latest product innovations at Hotelympia 2014 (Stand 3728). These include a selection of high performance films and finishes for interior design and refurbishment projects. SS-NOC Architectural Finishes from 3M are a series of special effect self-adhesive vinyl films that offer a host of finishes from wood grains, stone, brushed metals and carbon fibre effects.

Fasara Decorative Window Film series from 3M are translucent polyester films for glass partitions and windows, representing a fraction of the cost of stained or sandblasted glass. New Dichroic Film from 3M show how dazzling colour changing effects can be produced simply, without the expense of authentic dichroic glass or coloured acrylic panels. www.3M.co.uk/graphicsolutions

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UK Veneering, Combining Tradition and Technology – Beautiful Veneers For Any Situation

UK Veneering combines a wealth of traditional veneering skills with technology based manufacturing, with expertise spanning a wide range of applications with dedication to quality reflected in every project. The combination of traditional veneering skills, together with CNC Laser technology allows customers to produce almost any design.

It is this combination of skills and technology that allows UK Veneering to work with architects and designers, from the production and supply of plain veneered panels made to order, to producing panels cut to size, solid timber lipped, then over-veneered and sanded. UK Veneering can also veneer customers own panels, furniture and doors – and the company even produce veneer layons for customers to apply themselves.

UK Veneering has been involved with many prestigious projects. One recent example, shown above, is the Emirates Stadium in London, home of Arsenal FC. Wall panels and table top were finished in American Walnut and European Oak, creating a stunning visual effect. Also pictured is part of an installation at a 5 Star London Hotel, where wall panels were treated with Ambrosia Burr, Poplar Burr, Sapote Pernille and Black inlays – again, providing a beautiful and durable finish.

The main areas of production for UK Veneering include Architectural Panels, Doors, Kitchens and Furniture. For more details on UK Veneering’s capabilities and services, and to view and download the project portfolio, please call 01480 481188 or visit www.veneering.com or email info@veneering.com

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Schueco Avantec SimplySmart Concealed Fittings Are A Real Advance

New from the UK’s leading building systems specialist, Schueco UK Ltd, is AvanTec SimplySmart, a comprehensive range of concealed fittings for all types of Schueco aluminium inward-opening windows – tilt/turn, side-hung and bottom-hung. Developed as a response to the architectural trend for unobstructed minimalism, the Schueco Avantec SimplySmart range successfully combines contemporary design with functionality in use and includes a world first: a fully concealed fitting which allows a window to open a full 180° (previously, 90° was the maximum possible angle of opening).

All Schueco Avantec SimplySmart fittings offer clean lines and advanced engineering complemented by a variety of stylish ergonomic handles and finishes with or without key-locking. The fittings can support vents with a maximum size of 1700 mm wide x 2100 mm high and 1000 mm wide x 2500 mm high and these are specific fittings for tilt/turn vents weighing up to 130 kg, 160 kg and 200 kg. Now, even large opening windows with heavy triple glazing or sound insulation units are possible.

Importantly, Schueco Avantec SimplySmart fittings deliver high corrosion resistance with core parts protected to Grade 5 EN 1670, meaning that they are suitable for use outdoors in exceptionally severe conditions. Architects needing to take into account whole-life building costs are expected to find this assurance of long-term protection a particularly attractive proposition. The standard range is augmented by security versions of the fittings that can give burglar resistance up to Class 2 of EN 1627; their advanced design means that, if made necessary by a change of specification, basic fittings can be easily upgraded even after installation. Also available are ancillary Schueco Avantec products designed to improve safety. These include opening limiters, stays and turn locks. Schueco Avantec SimplySmart fittings have already won a 2014 SP Product Design Award. www.schueco.co.uk
Safety, Security And Style Are All Rolled Into One Package With The Hörmann Rollmatic Roller Garage Door

A choice of finishes and colours, along with matching frames and Socia make the Rollmatic the premium choice for looks, while its intelligent design features make it the safest and most reliable door on offer.

Patented spring compensation, force limitation incorporated into the automatic operator, and a barrel casing as standard offer real safety benefits. The casing prevents the recognised risks of drawing-in, entrapment and crushing, while the operator detects any obstacle the closing door meets and immediately reverses the direction of travel. This means there is no need for a separate leading edge safety device.

The spring compensation not only makes the Rollmatic operate smoothly and effortlessly but also prevents the door closing suddenly, even when operated manually. A significant benefit of this technology is that, in the event of power failure, the Hörmann Rollmatic can be operated easily by hand, without the need for a cumbersome crank handle.

This ease of use also adds to the convenience and longevity of this space saving option. Minimal internal room is required to house the door, which can be opened even when a car is parked right up to it.

The Rollmatic also benefits from Hörmann’s BiSecur radio control system that uses the same encryption that online banks use, adding to security. This space saving, convenient and stylish garage door offers real value for money by combining engineering excellence and Hörmann technology to offer years of trouble free service.

www.hormann.co.uk

Salice Introduce Their Eclipse Pocket Door System

SALICE are renowned for designing and manufacturing premium furniture fittings for kitchens, bedrooms and bathrooms, and their latest product offering is testament to their reputation. Eclipse is a pocket door system that features an assisted soft-close door return mechanism and a door opening safety device. The system incorporates the exclusive synchronised cam movement. Eclipse has been designed to offer simple fitting and adjustment, and can be installed, adjusted and inspected in situ, as all three movements are adjusted from the front of the cabinet in a simple, intuitive way. If required, the complete mechanism can be removed from the front without dismantling the cabinet sides. Eclipse assures innovative performance, durability and functionality.

www.saliceuk.co.uk

The VEKA UK Group Is ‘Secured By Design’ Across The Board

The VEKA UK Group is committed to supplying some of the most innovative and technically-advanced products on the market and is proud to have been awarded the ‘Secured by Design’ accreditation right across its VEKA and Halo product ranges, in addition to already holding the accreditation on its Bowater Doors range. The SBD logo is the only symbol that guarantees national Police approval of a product, providing reassurance that it provides a realistic level of resistance to criminal attack. It is widely recognised within the building industry and is increasingly listed as a mandatory requirement in tenders for refurbishment. To see a full list of the VEKA UK Group’s SBD-accredited products and fabricators visit www.securedbydesign.com and search ‘member companies’.

www.vekauk.com

LCD Privacy Glass

As UK interior designers continue to embrace the use of glass as an interior feature, ESG are predicting a rise in demand from residential customers for its ESG Switchable Glass range. This glass changes instantly to suit the needs of the home owner, switching from clear to opaque at the push of a button. It allows for maximum light dispersal and a feel of open space and delivers complete privacy when the need arises. A key feature of ESG Switchable is its ability to be used in wet areas and more and more people are seeing this as a perfect material for modern bespoke bathroom installations.

As this market sees a rise in the number of bespoke shower fittings, ESG has seen the rise in the number of switchable panels being ordered to create shower panels. When switched on, the panels give the feel of a standard clear glass, when switched off the panels turn opaque allowing the user complete privacy while showering. ESG Switchable panels can also be made with coloured tint allowing them to perfectly blend with any bathroom colour scheme. Panels can also be used as a rear projection screen. Installing a projector on the rear side of the glass means that TV and film can be safely viewed in your bathroom without the need to install costly AV equipment in the wet environment. All ESG Switchable glass is made to order allowing for any bespoke shape and size and comes with a five year manufacturers warranty.

www.ensgswitchableglass.co.uk

Comar Warmly Received At Care Home

Comar Architectural Aluminium Systems recently completed a new build residential care and nursing home in Doncaster. The project was completed using Comar TF1 100 & Turn and TF1 ECO casement windows, The Comar TF1 window system uses trademarked Polyamide Insulated (P.I) that provides exceptional thermal performance in a market where energy efficient designs and meeting the demands of the latest building regulations are paramount. In the rooms with balconies Comar TF1 ECO doors were selected and the fire doors were also required to comply with the Disability & Equality Act 2010.

www.comar-aku.co.uk

Comar 7P.i CD Auto Sliding doors were installed in the high traffic communal areas. These entrance doors were also required to comply with the Disability & Equality Act 2010.

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www.comar-aku.co.uk
Clearview Glass Balconies Take On New Film Role

As the name would suggest, NEACO’s Clearview glass Juliet balconies are renowned for providing an unobstructed outlook, but an office conversion project at Stirling House in Northampton required the opposite effect with a bespoke specification incorporating an orange privacy film on the toughened glass panels.

The design by GSSArchitecture brings eye-catching colour to Clearview’s minimalist aesthetic, producing an attractive contemporary façade for the three-storey former offices at Giffordville Road, which have been transformed into a new 14,000 sq ft annex to Abington Vale Primary School. Northamptonshire County Council bought Stirling House for £1.6m last year to address a shortage of primary pupil places and the completed conversion accepted its first intake of pupils in September.

Ben Asbury of GSSArchitecture said: “We chose NEACO’s Juliet balconies largely due to their elegant, clean and contemporary finish with a high level of transparency. The bespoke fixings required for our installation have worked very neatly and we are pleased with the results.”

NEACO’s national sales manager, Richard Richardson-Derry, said: “Our Clearview Juliet balconies have become a very popular alternative to heavily railed Juliet balconies and one of their best attributes is their ability to allow maximum sunlight penetration. Some projects feature the addition of bespoke etching or film on our glass panels and the Stirling House conversion is an unusual example of this as the film covers the whole panel. This particular film still allows excellent sunlight penetration.” All NEACO products come with a class-leading Lifetime Guarantee – further information is available at www.neaco.co.uk

Schueco Residential Collection Has Wide Range Of Folding/Sliding Doors

Launched last year, Schueco’s Contemporary Living Collection brings the company’s premium quality aluminium windows, doors and façades to the trade residential market. Among the systems is a wide range of sliding/folding doors which will appeal to owners looking for improvements that could add capital value, as well as comfort, to their homes.

The doors may be folded to one or both sides and can be specified to project either inside or outside the room. The doors are made to fit one or both sides and can be specified to project either inside or outside the room. As an alternative, the Schueco ASS 70 FD can deliver U values as low as 1.7 W/m²K and is able to accommodate very large openings thanks to an option that makes use of stainless steel rollers and a double bath strip between the frame and vent and a lowered drainage to ensure superior wind and water tightness. The High Insulation option brings the U Value down to 1.2 W/m²K.

WER A+ Rating For Reynaers Concept System Windows

Successfully achieving the new, top energy efficiency rating, Reynaers Concept System windows scored a Window Energy Rating (WER) A+ from the British Fenestration Rating Council (BFRC). “Putting our systems through the BFRC rating programme clearly identifies the capabilities of our Concept System windows, in keeping with our aim to supply innovative, market-leading aluminium system solutions”, said John McComb, Director Technical Services, Reynaers Aluminium.

Introduced by the BFRC the new A+ Window Energy Rating is the top band for window systems which have to achieve a rating index of 10 or above to be awarded the A+ grade. The BFRC Rating method includes all of the relevant factors that contribute to the energy efficiency of a window system, including ‘loss factors’, such as U-value, as well as gain factors, such as solar heat gain.

“The introduction of the BFRC A+ rating band allows architects, specifiers and fabricators to clearly select the most suitable window system for a development. This is particularly important today when developers of new and refurbished buildings are looking to achieve the best possible energy efficiency,” added John McComb.

As an alternative, the Schueco ASS 70 FD HI, a door which combines exceptionally high thermal efficiency (U-value of <1.3 W/m²K) with narrow face-widths of only 112 mm. Available with leaves up to 1.2 m wide and up to 3 m high, the door has the elegant looks, slim sight-lines and high-quality fittings that make it equally at home in residential properties or in commercial environments such as hotels or restaurants.

The easy-to-operate folding leaves are supported on double or quadruple bottom roller carriages running on a stainless steel track. The doors may be folded to one or both sides and can be specified to project either inside or outside the room. As an alternative, the Schueco ASS 70 FD HI, a door which combines exceptionally high thermal efficiency (U-value of <1.3 W/m²K) with narrow face-widths of only 112 mm. Available with leaves up to 1.2 m wide and up to 3 m high, the door has the elegant looks, slim sight-lines and high-quality fittings that make it equally at home in residential properties or in commercial environments such as hotels or restaurants.

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Only Vicaima Could Answer The Challenges Of This Landmark Project

Vicaima was chosen to provide the interior door sets for the WWF Living Planet Centre in Woking, which is also home to the WNF. The centre is at the very forefront of sustainable design and construction, and is one of the greenest buildings in the UK. As well as being the new home of the WNF, the building is an inspirational environmental resource which shows, through smart use of design, materials and technology, that it is possible to create a state-of-the-art building with minimal environmental impact.

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From the outset, Hopkins Architects and WNF set out to attain the highest possible standards of sustainability and worked to achieve ‘outstanding’ criteria throughout – an ‘award’ the project team is – at the time of writing - hopeful of achieving.

Vicaima was chosen to manufacture and supply the interior door sets throughout the building – a choice that was based on Vicaima’s robust and extensive environmental policy, commitment to responsible sourcing of raw materials, and full FSC accreditation.

Vicaima supplied a total of 46 fully finished, oversize Portaro door sets in various heights, the tallest being 2370mm for an entrance door to the auditorium, and to different widths, the maximum being 1130mm wide. The doors were finished in birch to complement the wall panelling. Portaro is an outstanding complete door system, providing the perfect partnership between door, frame and architrave, providing a fully finished door, frame, architrave and inseam in one simple system. Vicaima now offers this high performance door to a height of 2350mm to give a dramatic floor to ceiling look which can be further enhanced by seamlessly integrating the door – using invisible hinges – into full wall-width panels giving a stunning contemporary ‘panoramic’ look.

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Towerling Success

Architect Broadway Malyan selected concealed TECTUS hinges from SIMONSWERK for its ‘The Tower’ Project in London’s Vauxhall to allow heavy American Walnut doors in the luxury apartments to achieve a flush finish with the eye catching timber-painted walls.

The Tower is a prestigious new 180m tall 50 storey residential block containing 223 luxury apartments forming part of the St Georges Wharf development and will be the tallest residential block in the UK.

The luxurious interiors feature extensive use of highly polished timber paneling into which many of the internal doors are set.

To achieve an uninterrupted timber face, SIMONSWERK TECTUS concealed hinges were specified for internal doors as well as the front door from the lift lobby into the apartments. Finishes included polished stainless steel, antique bronze and stainless steel effect. TECTUS hinges were initially specified for the lift lobby entrance doors and some internal cupboard doors and as work progressed they were also selected for additional doors.

The doors were supplied pre-moulded and the hinges fitted on site by joinery contractor Houston Cox. The entrance doors use TECTUS 520-3D 1 hour fire hinges in polished stainless steel, while the internal doors have TECTUS 540-AB units in bronze metallic antique finish and stainless steel effect. The TECTUS fully-concealed hinge range, designed for unrelated residential and heavy-duty doors, is available in an unrivalled range of high quality surface finishes.

Options include the Tectus A8 version for glass or laminate door designs with door fascias and claddings up to 8mm, the Tectus “Energy” system integrating permanent power transfer, the Tectus FR Fire rated range which incorporates the intumescent material within the hinge body and the Tectus TE 645 3D hinge which will carry door weights up to 300kg.

Cantifix worked with Yingou Architects to create an elegant design for the swimming pool room – bordered with frameless glass walls and a huge, 7 metre wide set of Skyframe doors which span one side of the pool. The doors have 8 panels on a 4-track system, and all the panels are capable of sliding – allowing a wide variety of opening configurations.

The glazing is continued through to the gym – with a frameless glass link structure between the two rooms, as well as frameless glass panels and a PureGlaze pivot door in the gym room. This room also features a huge Invisible Corner alongside the PureGlaze pivot door – providing a completely uninterrupted view over the garden.

Another PureGlaze pivot door, matching side panels and a PureGlaze window were fitted to the stairway entrance, and 4 single-glazed, sandblasted internal doors were fitted within the house – complete with a Ritec coating to prevent fingerprints.

The finished extensions look modern and luxurious, and both contrasts with and complements the old building. www.cantifix.co.uk

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This rural manor house in Oxfordshire was renovated and extended in 2013 to include a swimming pool room and gym room - both of which benefit from extensive use of sleek, frameless glazing.

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Water Softeners – Thinking Inside The Box...

The world’s no.1 domestic water softener manufacturer offers its new easyflow water softener range in the UK. Tapworks now offers installers and specifiers a total solution to hard water, in a box. The new easyflow range offers an ideal solution for the installer who will find everything he needs to complete the installation in the box. The new easyflow range comes with all the components you need and a high flow valve as standard along with an installation kit that includes everything for 22mm plumbing and reducers for 15mm pipework loss. The new range still includes quality components from the high flow valve itself, to high quality steel braided hoses and quality valves.

Non-Allergic Acoustics

Troldtekt’s acoustic ceiling panels have been awarded the coveted ‘Allergy Friendly Product Certificate’. This has been given by Allergy UK, the leading national charity dedicated to supporting the healthy indoor climate because the panels do not contain any allergens.

Offering outstanding performance, fast installation and safety for all building occupants, Ecoline reduces costs for contractors and improves the effectiveness of Audible Visual Alarm Devices for end users. EN54-2 sets a base level for performance so that Visual Alarm Devices (VADs) provide a defined level of illumination. It became mandatory under CPR from 01 January 2014 and hence ENscape beacons and Visual Alarm Devices (VADS) provide a defined level of illumination. It became mandatory under CPR from 01 January 2014 and hence ENscape beacons and sounder beacons have been designed specifically to meet this requirement.

New X100 From Sentinel... Now Even More Effective

Leading water treatment specialist Sentinel has launched its new improved strength formula X100 Inhibitor. One of the industry’s leading system inhibitor and protective products is now even more effective, providing the best even heating system protection.

The new X100 inhibitor still provides the same benefits it has always delivered – outstanding scale and corrosion protection for all system metals, in tandem with robust stabilization of water pH which together ensure optimum boiler protection. It also helps to prevent boiler noise, pin-holing and the formation of hydrogen gas in the system. The product reformulation upgrade to X100 Inhibitor has seen overall product effectiveness increased by almost 10%.

www.sentinel-solutions.net

Thermal Upgrade At Prestigious Hotel

The A. Prestige Group have supplied Spartherm PP to thermally upgrade the walls of a listed Grade II Art Deco building. The building is being refurbished into a new hotel, The Beaumont, Mayfair, London. The ongoing issue of hard-to-treat walls in the UK can be overcome utilizing Spartherm - an ultra-thin insulation for thermal upgrades. Spartherm® PP (plasterboard/plywood) is a high performance reinforced laminate specifically designed to be directly fixed to existing solid walls. Spartherm®-wired insulation blanket is bonded to a plasterboard/plywood composite, for use in applications where low U-values are required with limited space. Spartherm® PP living boards can achieve similar performance to traditional plasterboard laminates, but at a fraction of the thickness.

www.prestige-group.com

Cambridge Self-Builders Choose Timoleon To Deliver Underfloor Warmth

The owner of an aspirational self-build home, featured on the television series, “Building the Dream”, has made use of two different systems from underfloor heating specialist Timoleon to create a comfortable and controllable environment within the highly insulated German manufactured structure.

The single and two-storey residence, located in one of the UK’s fastest rising property hot-spots at New Cambridge, has been constructed using an advanced off-site manufactured timber framed system offering optimum levels of sustainability as well as style. The elevated design is based on white render, timber boarding and high performance glazing, including three sets of sliding doors facing onto the courtyard style garden.

In harmony with the high performance building envelope, the designers for the project have specified a very energy efficient heating system. Installed on the ground and upper floors respectively, it features both the Spa and the Foilboard Batten systems from Timoleon designed to deliver the space heating. Pure Heating and Plumbing of Cambridge carried out the installation work. It is a characteristic of both heat pumps and modern condensing boilers that they operate most efficiently in combination with underfloor heating systems, due to their flow temperatures. In this case the space heating demands are relatively low and the P&E contractor decided to specify two of the options from the Timoleon product portfolio; enhancing the efficiency and facilitating the responsiveness required.

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In the event of a fire, the building’s alarm system signals the natural ventilation system to automatically close all the vents as part of the smoke and fire control strategy. This not only restricts the flow of oxygen into the building to help suppress the fire but also allows precise control to be taken by fire officers via the system’s manual control interface.

In addition to installing the actuators, the interface control panels were implemented in the event of a fire.

The new serial feed radiators from the UK’s leading radiator manufacturer offer a wide range of benefits over traditional parallel feed radiators including an independently assessed 10.5% energy saving, along with much faster heat up and cool down, much increased radiant heat output, and a major contribution to a condensing boiler as the lower return temperature of the circulating water to the boiler ensures the boiler really operates in condensing mode reducing energy use, energy bills and emissions from the heating system.

Why the Radical? John and Chrystyne: “Like many people, although there are UFH systems you can install upstairs we didn’t feel confident of that so we decided to stick with tried and tested technology above ground level. What we didn’t know when we made that decision was that the Radical had recently been launched by Stelrad in the UK, offering a serial feed radiator for the first time with an independently assessed energy saving of 10.5% over standard radiators.”

We were delighted when we found out about the Radical and earmarked them as ‘definites’ for the upstairs. Not just for the lower bills and the lower energy usage though. In addition, using Radiclas helps a condensing boiler such as the Vitocrossal 300 we had selected to operate even better, because the lower return temperatures of the circulating water to the boiler made sure the boiler operated effectively in condensing mode to get the best possible energy efficiency and energy savings.”

There’s still a lot of work to do in the Karman’s home, with a new Aga being delivered shortly, a new kitchen installation and some decisions to make about stud walls that need to be incorporated upstairs.

But it’s a case of so far so good as far as the Karmans are concerned: “We’re delighted with the way things are progressing and are total converts to the Radical radiators – they look very similar to standard parallel feed radiators but because they are designed for the front panel to heat up first – you benefit from much better radiant heat levels than a standard radiator and because you rarely need a radiator to be belting out 100% of the heat it can – in fact once the system is on it rarely needs to operate at more than 50% of its output capacity, the back panels of the radiators rarely need to heat up, making it even less expensive to use the heating system than we imagined.”

www.stelrad.com

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The new solar thermal system arrived and provides at least 50% of the hot water required during the year. There’s a Rehau underfloor heating installation downstairs and upstairs the heat is shared through the award winning Stelrad Radicals that have been installed across the upper floor.

His own research before calling in Simon Corney of Complete Plumbing Services from Oxted in Surrey, to perform the system integration he received from the components he had selected. He had tracked down a Viessman Vitocrossal 300 condensing gas fired boiler to power the system – before the boiler was actually available in the UK!

His research had selected. He had tracked down a Viessman Vitocrossal 300 condensing gas fired boiler to power the system – before the boiler was actually available in the UK!
The Ultimate Profile From Astron

The LMR 600 Roofing System from Astron, part of the Lindab Group, is the only completely integrated roll formed metal roofing system on the market. Consisting of 600mm wide Aluminium coated, high tensile strength steel panels, with a 75mm high corrugation, LMR 600 is suitable for roof slopes from 1.0 degrees to 30 degrees and curved roofs with a weather of 700mm or more. Each panel is attached to the roof structure by a special clip and a sliding tab assembly which allows the roof to expand and contract in line with changing temperatures. The unique 360 degree double - lock Pittsburgh seam assures the highest standards of watertight integrity. Once the panels are secured the entire roof forms a monolithic metal membrane.

www.astron.biz

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High Praise For Yeoman Rainguard Rainwater Systems

Damaged Victorian down pipes on the Leeds Methodist Mission have been replaced with a Cast Iron rainwater system from Yeoman Rainguard. Yeoman Rainguard supplied four replacement stacks to match the original design in 100mm Dia Cast Iron, pre-painted Black. Trevor Parker, Leeds Methodist Mission property and conference manager “We were delighted with the quality of products and prompt service we received from Rainguard. Its specialist skills were very impressive and we were kept abreast of progress at every stage of the job, added Trevor.”

Visit www.yeoman-rainguard.co.uk or call 0113 2790954 or email sales@yeoman-rainguard.co.uk

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Uni-Click® Dry Verge Gives Total Flexibility

With the MBCC decision to make dry fixing of eaves and ridges mandatory, Klober's new Uni-Click® Dry Verge Plus can be used with all large and medium format concrete tiles. Suitable for pitches from 12.5° to 90° it has a built-in drip tray and is available in black, slate grey, terracotta and black with matching eaves closures, ridge closures and ridge end caps.

Uni-Click is invariably installed in conjunction with a universal ventilating dry ridge and hip system such as Klober Rid-Off® which comes in a practical all-in-one kit and is suitable for half round and angle ridge tiles.

www.klober.co.uk

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Coudome Sheds New Light On Waylands Academy

The re-roofing of an education building dating from the 1960s has included the installation of nearly 70 Coudome Trade Range Rooflights in different sizes, improving both the appearance and the thermal performance of the building while offering optimum natural daylighting to areas such as corridors and kitchens as well as classrooms. The decision to replace the 60 year old existing rooflighting was taken for a number of reasons aside from their actual aged appearance, many of them leading and offering poor security as well as little insulation. By contrast, the double-skinned polycarbonate enclosures to the Coudome Trade Range rooflights offer much improved thermal performance and the avoidance of condensation. In addition, while the 67 contemporary Coudome units offer good standards or antiglare and weather resistance where the dome seal against their frame, they were specified with either trickle ventilators or manually operated vents, depending on their location. The rooflight dimensions also varied with sizes including 1050 x 1050 mm and 1000 x 2200 mm.

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www.klober.co.uk

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Kemper System Helps Huddersfield Uni Build On Bio-Diversity

Liquid roofing and waterproofing specialist, Kemper System, has helped enhance both biodiversity and energy efficiency at Huddersfield University by working collaboratively with the roofing contractor and green roof specialist on a series of new build green and warm roofs.

Huddersfield University has invested in the construction of four new buildings designed by architects, Watson Batley, including a new sports hall, Dean’s office and corporate suite. Constructed with a single steel frame, all the buildings adjust each other but rise to different heights. Grown roofs were specified for these areas, including the new sports hall, and a warm roof was selected for the corporate suite.

Kemper System worked closely with the architects, the roofing contractor, Cavston Roofing, and green roof supplier, ABL, to develop a series of warm roof and green roof systems that would take account of different roof levels, aspect and bio-diversity of the planting required to meet the University’s objectives. The green roof solution was to use Kemper System’s Kemper T220 cold liquid-applied waterproofing membrane and an innovative ‘balloon’ drainage system, designed by ABL.

The blue roof paves a high density polyethylene (HDPE) reservoir under the growing medium to replace the more conventional GDGS system and avoid costly and time-consuming excavation of separate drainage tanks. The roof build up was invented by applying the FLL certified test-resistant Kemperol V210 waterproofing membrane first, followed by the insulation, the blue roof drainage reservoir and then the growing medium.

Explains Nick O’Reilly from Cavston Roofing “This project demonstrates how important it is to consider specification decisions in a holistic sense rather than thinking about material costs in isolation. For the green roof system, avoiding the need for a GDGS system saved time, money and costs on site. For the waterproofing membrane, using Kemperol V210 meant that we could be more flexible with the programme and more creative with the roof build up as well as providing an FLL certified test-resistant and robust waterproofing membrane with a BBA certified service life in excess of 25 years.”

www.kemper-system.co.uk

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RIEFA Lightweight Living Roofs

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

Riefa boards are primarily used as an insulation board in the manufacture of doors and as a sound insulation in partition walls. The dimensions of the boards in their dry condition are 18mm thick and 2400 x 1200 mm, and they only weigh 1kg. This makes them very easy to transport and distribute across the roof. The Riefa organic fibre roof-growth medium is made and produced in a demonstrably sustainable way. It is the light, fits neatly into place, its low depth profile doing away with the need for expensive alterations to any property. Easily installed over terraced or redundant roof covers, a simple rubber membrane overlay eliminates the need for expensive removal and removes the need for the disposal of hazardous oil-based systems.

Contractors do not need specialist skills to install the Riefa system. It fits seamlessly onto sloping, pitched or shaped roofs of all kinds. Nutrient rich and superb at retaining water, Riefa boards have been tested to destruction as a growing medium.

www.riefalivingroof.co.uk

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**Eurobrick X-Clad Receives BBA Accreditation**

Bristol-based Eurobrick has received British Board of Agreement (BBA) accreditation for its popular X-Clad brick-slip cladding system. The independent third party certification gives Eurobrick customers the knowledge that they are purchasing a quality product that has been rigorously tested and scrutinised. X-Clad had already been certified for over 20 years, but new Eurobrick has made the move to BBA. The X-Clad system is an attractive brick slip cladding that insulates, rejuvenates, is versatile, easy to install and is environmentally sustainable. Eurobrick was the first company to introduce an insulated system to the UK over 23 years ago and since then has built up a large, diverse client base. www.eurobrick.co.uk

**Carea Cladding Fits The Bill Inside And Out At New £36M Tresham College**

At the new £36 million Tresham College on the Corby Campus in Northamptonshire, Carea Acantha cladding created a stylish and decorative external façade and internal walling system whilst helping to deliver outstanding levels of sustainability and energy efficiency. Carea cladding was installed internally and externally to complete the stunning aesthetic – whilst offering superb thermal insulation, protecting the building against changes in temperature and eliminating thermal bridging.

Providing excellent thermal efficiency and comprising around 91% natural minerals – Acantha proved a highly sustainable choice. Carea Acantha composite stone panels are designed for building ventilated facades with insulation and non-ventilated facades without insulation. Available in a range of colours, textures and sizes, the panels were supplied in specified ‘Oval’ and two finishes – gloss and riven. These were then installed in alternate horizontal bands to create a modern, attractive finish in line with the overall contemporary aesthetic. www.carea.uk.com

**Brick - First Construction Product To Be Awarded Environmental Product Declaration (EPD)**

Following a Life Cycle Assessment carried out by the BRE for Sustainable Products, the Brick Development Association’s (BDA) generic brick has been awarded an Environmental Product Declaration. The generic brick is the first construction industry product to be verified under BRE Global’s recently launched EN15804 Environmental Product Declaration (EPD) scheme. The EPD was presented to Alan Baxter, the Chairman of the BDA at an Industry Day held in London on 15th December 2013 who commented: “With origins that date back to 7000 BC, the generic brick has demonstrated its continued relevance in this era of sustainable construction. We’ve always known that our material had great green credentials now we have the independent evidence that proves it.”

An Environmental Product Declaration (EPD) is a Life Cycle Assessment based tool used to communicate the environmental performance of a product. It is based on an internationally-agreed system for calculating and reporting environmental impacts of construction products. All EPD must be third-party verified. The BDA’s EPD has been prepared using a set of product category rules designed specifically for all construction products.

BRE Global is internationally recognised for its expertise in the field of Life Cycle Assessment (LCA). Having worked closely with industry to develop the Green Guide and Environmental Profiles Certification Scheme, it consulted with fellow internationally recognised LCA experts in developing a comprehensive Life Cycle Assessment methodology for construction products in line with the European standard EN 15804:2012. www.brick.org.uk

**Recent Developments Revealed In Shackerley’s New Sureclad® Façades Brochure**

Shackerley’s new ventilated cladding brochure reveals an extended Sureclad® Ceramic Granite Collection and an impressive gallery of Sureclad® façade projects, some of which are the result of a rapidly expanding strategic partnership with Kingspan, where Shackerley’s ceramic granite has been installed as a premium quality façade with the BENCHMARK Karrier Engineered System.

The 124-page catalogue introduces a range of additional Sureclad façade materials, including a comprehensive range of attractive large format engineered stone options, prefabricated in the same way as Shackerley’s ceramic granite panels at the company’s ISO 9001 certified production facilities in Lancashire.

Sureclad® meets all relevant British and European standards, CWCT standards for systemised building envelopes and NHBC technical requirements. P�urifying architectural and engineering assessments in Philadelphia have also proved its suitability for installation in earthquake and hurricane zones. www.shackerley.com

**Diffused Daylighting At The National Football Centre**

One of the world’s largest sporting facilities to use Kalwall® with aerogel insulation technology is St George’s Park, the FA’s National Football Centre and training ground in Burton-on-Trent. Of particular interest is the full-size indoor football pitch and separate 2780sqm of Kalwall used on the site. This produces a remarkable insulating ‘U’ value of 0.28W/m²K, equivalent to a solid wall.

Maximising daylight, by incorporating an aerogel within 950sqm of the 2780sqm of Kalwall used on the site. This produces a remarkable insulating ‘U’ value of 0.28W/m²K, equivalent to a solid wall.

**Bank is Fully Protected by Remmers**

The facade of a Grade 2 listed, four storey high building in London required extensive stone and concrete restoration. Concrete & Corrosion Consultancy Practice was appointed as technical project manager for the refurbishment works.

The stone and concrete based banding of the facade were being corroded through excessive weathering. Remmers protective coating systems were chosen to meet the highly demanding specification and multiple facade finishes including Limestone.

Repairs were carried out using Betofix R2, a high build, fast curing concrete repair mortar. Remmers Restoration Mortar was also selected for its ideal restoration and repointing properties for masonry as well as ornamental building elements.

Finally, Remmers Elastoflex Facade Paint was applied for its excellent anti-carbonation characteristics, resistance to weathering and crack bridging ability. The works were completed within budget and ahead of the tight program, to the clients delight! www.remmers.co.uk

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**Enquiry 89**

**Enquiry 90**

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**www.eurobrick.co.uk**

**www.carea.uk.com**

**www.shackerley.com**

**www.brick.org.uk**

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**www.eurobrick.co.uk**

**www.carea.uk.com**

**www.shackerley.com**

**www.brick.org.uk**
Latham’s Latest Cladding Gets Trada Approval

Accoya®LathamCLAD - the modified, highly durable and dimensionally stable certified timber cladding – is now available from all eight of James Latham’s timber depots. Created from sustainably sourced wood and completely non-toxic, Accoya®LathamCLAD is a revolution in wood technology. And with the 30mm profile having recently received TRADA approval for use as an external cladding product, Accoya®LathamCLAD is a perfect solution for exterior cladding, siding and facades where the wider board offers numerous features and benefits including enhanced aesthetics, less frequent maintenance, dimensional stability, durability and improved insulation values.

Suitable for horizontal or vertical installation, Accoya®LathamCLAD can be used to create simple or complex designs. And with a choice of factory coating finishes, it can be speargraded or cut to length to suit the design. A 50-year guarantee ensures that Accoya®LathamCLAD performs continuously and impressively. According to James Latham’s Group Product Sales & Development Manager for Accoya, Paul Leach, “When it comes to cladding, Accoya®LathamCLAD ticks all the boxes and is the perfect solution for many exterior applications which were once only feasible with non-sustainable material. Use of the wider cladding boards is allowed by the improved dimensional stability, plus cladding joints do not open, tolerances remain tight and twist is prevented. In addition, the wood’s natural appearance is retained for longer, thanks to the superior resistance to the effects of UV exposure.”

He added, “Accoya®LathamCLAD is a fantastic material for external specification and fits perfectly with our already established range of sustainable products.” In addition to cladding, sidings and facades, Accoya® wood is also ideal for windows, doors and decking. ACCOYA® and the Trimarque Device are registered trademarks owned by Titan Wood Limited, a wholly owned subsidiary of Accsys Technologies PLC, and may not be used or reproduced without written permission. www.lathamtimber.co.uk

Simpson Strong Tie Unveils New Product Range For The Light Gauge Steel Frame Construction Industry

Simpson Strong Tie kicks off 2014 with the launch of a full range of performance tested connection solutions for the steel frame construction industry.

Developed for use with light gauge steel, this innovative range of time saving brackets, clip connectors and hidden systems also includes collated fastenings and heavy duty anchoring products - all fully tested and available from one source.

Simpson Strong Tie has also developed a new line of connectors within this range especially for buildings which have “over sail” structures, as part of its commitment to expand its range for light gauge steel applications. A new brochure which includes installation advice and performance values is available as a hard copy or as a PDF download from www.steelframe.co.uk

Ancon Launches BIM Object Library

Ancon has launched a comprehensive BIM Object library to support the industry’s transition to digital building modeling. Available free from the BBS National BIM Library, the new data-rich BIM Objects allow Ancon products to be easily incorporated into a 3D building model and its associated component database. Offered as part of the PBS portfolio, users can be confident each file has been quality-checked by the BBS team, catalogued in line with the National Building Specification and has a product structure designed to work seamlessly with the BIM specification tool NBS Create, as well as being compatible with COBIE spreadsheets and IFC data exchanges. These BBS-verified BIM files can also be downloaded from the Ancon website.

To download Ancon BIM objects visit www.nationalbimlibrary.com/Ancon or www.ancon.co.uk

Lindapter Hollo-Bolts Used On New Stonehenge Visitor Centre

Lindapter’s High Clamping Force (HCF) Hollo-Bolt was used to connect structural glass fins to the primary steelwork of the new Stonehenge Visitor Centre.

Theusses to support the walls of this project where on-site access limitations posed a potential problem. The closed RHS steel made Hollo-Bolts the preferred connection method as they offered a reliable and high strength connection with independently approved safe working loads that could be installed using just hand tools; a range of benefits that could not be matched by any alternative connection method.

The £87 million Stonehenge Visitor Centre development was completed on time and on budget and opened to visitors in December 2013. The completed structure provides a striking gateway to the monument site for the 900,000 people who visit Stonehenge each year.

The Hollo-Bolt HCF features a patented High Clamping Force mechanism that produces three times the clamping force when compared to the same sized product without the mechanism. To learn more about the Hollo-Bolt product range and how the HCF mechanism works visit www.hollo-bolt.com

BDA Organises Structural Masonry Day

In collaboration with Anca, the Brick Development Association (BDA) which represents the UK Brick Industry, is organising a Structural Masonry Day on 3rd April, as part of its annual seminar series. Leading experts in structural masonry design will be on hand to offer authoritative advice on masonry prefabrications and movement in masonry as well as case studies on innovative structural solutions.

The event will be held at Anca’s Symposium Room, 13 Finsbury Street, London N1 7GF from 9am to 5pm.

Tickets cost £75 (plus VAT) including lunch and refreshments and can be purchased by visiting the BDA’s website: www.brick.org.uk/2013/10/bda-structural-masonry-day/

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Photo: © Vitrine Systems

Ancon BIM objects are compatible with COBIE spreadsheets and IFC data exchanges. These NBS-verified BIM files can also be downloaded from www.nationalbimlibrary.com

To download Ancon BIM objects visit www.nationalbimlibrary.com/Ancon or www.ancon.co.uk

Enquiry B44

Lindapter Hollo-Bolts Used On New Stonehenge Visitor Centre

Lindapter’s High Clamping Force (HCF) Hollo-Bolt was used to connect structural glass fins to the primary steelwork of the new Stonehenge Visitor Centre. The fins in turn support the glass box structure, one of the centre’s two ‘pods’, covered by an undulating roof supported by 212 steel beams. A range of size M16 and M20 Hollo-Bolts were specified by the Designers & Engineers of the structural glazing, Vitrine Systems, to connect the glass fins to the RHS perimeter ring beams supporting the transparent glass panels that formed the exterior of the ‘pod’ housing the Visitor Centre’s café and shop. The Hollo-Bolt connections comfortably fulfilled all load requirements, which ranged from 28kN to 108kN depending on the connection location.

The discreet and easy to install Hollo-Bolt provided the ideal connection method for this project where on-site access limitations posed a potential problem.

The closed RHS steel made Hollo-Bolts the preferred connection method as they offered a reliable and high strength connection with independently approved safe working loads that could be installed using just hand tools; a range of benefits that could not be matched by any alternative connection method.

The £87 million Stonehenge Visitor Centre development was completed on time and on budget and opened to visitors in December 2013. The completed structure provides a striking gateway to the monument site for the 900,000 people who visit Stonehenge each year.

The Hollo-Bolt HCF features a patented High Clamping Force mechanism that produces three times the clamping force when compared to the same sized product without the mechanism. To learn more about the Hollo-Bolt product range and how the HCF mechanism works visit www.hollo-bolt.com

Enquiry B87

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Enquiry B87
Stannah Modernise Car Park Lifts In Taunton

The Old Market multi-storey car park in Paul Street, in the heart of Taunton has been the subject of refurbishment that centres on the three very well-used passenger lifts. The South West England and South Wales branch of national lift company Stannah Lift Services has completed the comprehensive modernisation of a duplex of lifts adjacent to the central stairway and a single lift adjacent to the access on the opposite side of the building. Both the corresponding motor rooms were also refurbished.

All three lifts are 6-stop traction lifts, the duplex lifts each catering for 16 persons/1250kg and the single lift being a 13-person/975kg capacity.

Working with South West One Ltd on behalf of Taunton Deane Borough Council, Stannah won the competitive tender, removed old equipment and installed new lifts in just 18 weeks, on time and in budget.

Robert Erskine, Senior Building Surveyor with South West One, was delighted with the work of the Stannah Lift Services South West team, putting it in writing to the Managing Director: ‘This project is now completed and I wanted to make you aware of the first class service your team has given in achieving a good result on what was, a very contentious and politically sensitive site. From the outset, your sales advisor showed nothing but confidence in what your company could achieve and what the outcome would be, whilst his colleagues on site carried out the donkey work to make sure things happened in a timely manner with additional technical support in the background smoothed the way.

I visited the site almost every day and was always greeted with a smile and an air of confidence, competence which was very reassuring. My special thanks must go to your supervisor who fine-tuned everything, leaving nothing for my Consultant to pick up on - a rare achievement indeed!

With no adverse complaints from the public throughout the works, my thanks go to them all and I trust our paths will cross in the future.’

The scope of the work included new traction drive systems with a high performance motor unit for each lift, new electronic controllers and totally refurbished lift cars and landing doors. Each lift was completed simultaneously, in order to maintain sufficient public access over the six car park levels.

The duplex pair is cleverly and very neatly linked to one call button, positioned centrally between the two lifts, doing away with the usual confusion of which lift to call and where they both are. The state-of-the-art controller does all the work for you, as the pair of lifts work together to serve the user quickly, efficiently and saves energy by eliminating unnecessary travel. The lift is extremely quiet and the ride within the bright, spacious, brushed steel lift car is exceptional.

www.stannahlifts.co.uk

Enquiry 88
TAPER-LOC System Eases Balustrade Installation At New Olympia Swimming And Leisure Complex, Dundee

The brand new complex features a 50 metre competition pool, wave pool, rapid river, dive pool, flumes and fitness suite. The Main Pool incorporates a movable floor and end walls to enable it to be reconfigured into a 25 metre Training Pool for clubs and public lane swimming.

The TAPER-LOC System was used to create a beautiful frameless balustrade in several areas of the pool and leisure complex. The clean lines of balustrade solution offered a simple but effective method to enclose the different types of seating and staircase arrangements.

C.R. Laurence’s TAPER-LOC™ System has facilitated a speedy and simple installation of a new glass balustrade system at Dundee’s eagerly awaited new Olympia swimming and leisure complex.

The product is completely unique because it uses a horizontal TAPER-LOC design, which allows the system to be adjusted, dismantled and re-set easily and efficiently. The TAPER-LOC™ System conforms to BS6180:2011 and is ideal for replacing scratched and broken panels in existing applications.

Enquiry 89
The brief for this private project in the beautiful rural town of Ambleside in the Lake District, was to design, supply and install glass and stainless steel balustrade to the terrace areas, the stone staircase and to the balcony of the master bedroom. The client required a frameless system but without a base channel, and a curved handrail following the line of the stonework.

Q-railing recommended faceted glass under the curved handrail – base clamps in the centre of each glass providing secure, sturdy fixings to the floor. The same system was used on the straight railing and the stairway to ensure continuity. This is just one of the several balustrade systems offered by Q-railing enabling designers to choose a combination of products to suit any application.

The whole project was site surveyed and drawn up by the in-house engineering team at Q-railing Recommended Installer, S&P Structures Ltd, accurately calculating radii for the handrail and the sizes for the glass panels to guarantee the functionality and aesthetics of the installation.

The project was completed to schedule and the client was delighted with the final result. www.q-railing.co.uk

Beautiful Balustrades Enhance Idyllic Location

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Enquiry 90
A recently built college in Bradford has benefitted from vertical cladding support systems from NVELOPE, the rainscreen cladding specialist. The new six-storey learning centre has been fitted with NVELOPE’s NV1 system to support 3800m2 of sandstone cladding.

In 2011, the Government provided the city of Bradford with a budget of £17 million to kick start the regeneration of the area. Bradford College is currently in the process of developing its multi-million pound campus situated in the centre of the Bradford. The two year project to construct the technology-rich learning centre is on track to be completed by September 2014. Lakesmere, the building envelope specialists specified NVELOPE’s NV1 systems due to its ease of installation.

There was limited space on site due to the restrictions of a city centre project. Storage around the site was limited and all deliveries were scheduled to arrive on a timely manner. While this was an issue, the ability to fix the NVELOPE brackets quickly and easily helped speed up the installation.

NVELOPE’s NV1 flexible point brackets were well suited for this project as they allow for expansion and contraction of the cladding when under strain from various weather conditions including strong winds. The NV1 range provides a secure fixing solution for façade materials including high pressure laminate (HPL), timber, weatherboard, fibre cement, fibre concrete, ceramic, thin stone, aluminium composite material (ACP) and many other metals. They are available pre-assembled with thermal isolators to help reduce thermal bridging and also prevent a chemical reaction which could occur between the aluminium bracket and the like in a concrete frame. Stand off sizes for the vertical range are from 40 – 305 mm.

NVELOPE holds extensive stock to ensure orders can always be met and where necessary, immediate delivery can be provided. All NVELOPE cladding systems can be engineered to project specific requirements thanks to the expertise of its technical design support service. This provides architects and specifiers freedom of design flexibility and to meet almost any building footprint. For further information on NVELOPE Rainscreen Systems, visit www.nvelope.com or call the company direct on +44 (0)1707 333 396.

Enquiry 91

New School Opens To Meet The Severe Shortage Of Places In Barking And Dagenham Using Yorkon Building System

A new primary school constructed using the revolutionary Yorkon building system from the Portakabin Group, has opened to help meet the severe shortage of places in Barking and Dagenham. Riverside School is the third Yorkon project to be completed by the Portakabin Group for the London Borough of Barking and Dagenham Council, working with delivery partner Cemstone Property Assets. This follows the successful delivery of additional classrooms at Trinity School and Robert Clark School.

David Laws, Minister of State for Schools, recently announced that 417,000 extra school places in England are urgently required by 2015 following demographic changes (source: Targeted capital funding for new school places, gov.uk). Barking and Dagenham has one of the fastest-growing school-age populations in the country and this latest project will help to address the issue.

“Yorkon offers a best-in-class solution to the crisis in pupil places that is challenging local authorities right across the country. To be able to establish a brand new, high quality school within such a short time frame, and on budget is no small achievement, and we were delighted to play our part in helping Riverside School become part of the local education landscape.”

Tim Byles, Chief Executive for delivery partner Cemstone Property Assets, said, “Portakabin offers a best-in-class solution to the crisis in pupil places that is challenging local authorities right across the country. To be able to establish a brand new, high quality school within such a short time frame, and on budget is no small achievement, and we were delighted to play our part in helping Riverside School become part of the local education landscape.”

Externally, the building is finished in bronze, blue, green and grey, creating a strong identity for the new school. The campus will also include a car park, cycle store and fenced outside playing area. Facilities include 27 classrooms, configured as science laboratories, art and technology rooms and general classrooms; an ICT room, library, staff room, administrative areas, toilets, full catering kitchen, and a music room with acoustic protection.

The Yorkon building system offers the widest range of module sizes currently available in design flexibility and to meet almost any building footprint. For further information about the Yorkon off-site building system for education projects, call 0844 200 323, email contact@yorkon.co.uk or visit www.yorkon.info/newsystem

Enquiry 92
A Winning Performance In The “Golden Mile” – Great West House, Brentford

Forming part of what is known as Brentford’s “Golden Mile” business area, Great West House with its L-plan design is an iconic 1960’s tower. Dominating the skyline from the elevated M4, Great West House provides office accommodation for a number of blue-chip British and world-wide organisations, including BSkyB, Page One Communications and Air India. Known as GW1 and GW2 the paired buildings are owned by commercial property investment company CLS Holdings plc and operated by Instant Office Ltd as a Business Centre providing fully furnished office suites, conference rooms, catering and leisure facilities.

An extensive programme of refurbishment and upgrade has ensured that the buildings provide contemporary accommodation to a high standard. However with energy performance now assuming greater importance for building owners and managers the original metal windows are also being enhanced to improve standards of thermal insulation and comfort.

The chosen solution is Selectaglaze’s bespoke Secondary Glazing with high performance seals which reduces heat loss by more than 50% and minimises air leakage. Comfort is improved and energy demand reduced. The secondary windows are fully fabricated off-site allowing rapid installation and minimal disruption to the day-to-day business of the building.

Thermography tests conducted by Thermascan clearly demonstrate that floors with secondary glazing perform considerably better than those with original glazing.

Secondary glazing also offers significant noise insulation, typically a 45dB reduction, and is extensively used to combat traffic and aircraft noise in offices, hotels and residential areas. Effective security can also be achieved using locks and strengthened glass.

Selectaglaze, founded in 1966 and a Royal Warrant holder since 2004 is the UK’s leading designer, manufacturer and installer of secondary glazing. Products are independently tested for thermal insulation, sound attenuation and security. Secure products have ‘Police preferred specification’ under the Secured by Design initiative.

Selectaglaze offers a free technical advisory service and a RIBA approved CPD seminar to professional designers.

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

Sensitive Solution For Historic Castle

Visitors to Durlston Castle will never feel a chill as they take in the spectacular views of Dorset’s Jurassic Coast. Electrical underfloor heating from Speedheat was chosen to overcome a potential floor height problem in the Belvedere viewing room and two cloakrooms during the £5.5 million restoration of the historic Grade 2 listed building. The restoration of the Victorian castle, now the Gateway Centre for the Jurassic Coast World Heritage Site, involved a mix of traditional and modern construction methods. Explained Rob Hooker, managing director of main contractor Greendale Construction: “There were many conservation issues that had to be considered. Among these were restrictions on the floor height in the Belvedere and cloakrooms, where underfloor heating was to be installed. “Because the Speedheat system is only 2mm deep, overlaid with a thin latex screed and the final floor covering, there was no noticeable increase in floor height.”

Durlston Castle near Swanage is owned by Dorset County Council and is part of the Durlston Country Park and national nature reserve. Among the first visitors to appreciate the comfort of warmth from the floor up while admiring the 360-degree panoramic view from the Belvedere was Princess Anne when she officially opened the castle.

www.speedheat.co.uk
Bespoke Office Pods

Wrightstyle, the Devon-based steel and aluminium glass company, has completed a major back-to-the-future heritage project in London. The project involved the conversion of a 10-storey 19th century commercial building between Marylebone Road and Baker Street into a residential property. The design challenge was to respect the design of the building’s external envelope while updating the internal envelope to meet modern thermal and acoustic standards.

The solution was to use Jansen Arte Slimline heritage thermally broken windows in a secondary glazing configuration that complemented the restored external sash windows. Wrightstyle custom-designed the Arte systems, which allows for windows in the Bauhaus style to be perfectly reconstructed with ultra-slimline composite profiles. Wrightstyle has now significantly extended its system range by becoming a network partner for global building envelope giant Schueco. The Schueco accredited scheme gives customers the assurance that its fabrication and installation partners have been highly trained and approved to supply the company’s enhanced aluminium and steel glazing systems.

Marketing and distribution across Ireland of the major Pernod Ricard premium wine and spirit brands, such as Malibu, Jacob’s Creek, Branton Estate and Rumor, is big business for Irish Distillers Pernod Ricard. However, the company’s real heritage is in its whisky brands, particularly Jameson Irish Whiskey, which is produced at the main distillery in Midleton, County Cork.

Sustainability has always played a significant part in Irish Distillers Pernod Ricard’s development programmes and the current expansion is no exception. A challenge taken up by the architect John Morehead, of Blain Morehead Architects, who comments: “We were able to incorporate all the tools and techniques we used from doing passinghead buildings and apply it to this building”.

The 21.5m high pot still hall building envelope is designed to a very high level of thermal performance and one of the design factors that had to be taken into account was the prevention of thermal bridging. There is of course a regulatory need to reduce local heat loss and 

KST modules are unique in being able to withstand extremely demanding loads and incorporate stainless steel components to ensure corrosion protection and minimise thermal conductivity. Due to their thermal insulation properties, the KST modules dramatically reduce energy loss in connective areas by guaranteeing that there is uniformity between cantilever structures and the internal structure at the thermal envelope. They also transfer load and maintain full structural integrity, while at the same time enabling inner surface area temperatures to remain well in excess of those likely to cause mould formation and condensation. The units are easy to fit with regular end-plate connections and all available steel profiles can be bolted on.

The entire Schöck Isokorb range provides BBA Certification and LABC Registration, and comfortably exceeds the requirements of BRE 2:2001 and Part L of the UK and Irish Building Regulations. These state that the temperature factor used to indicate condensation risk (TSF), must be greater than, or equal to, 0.10 for commercial buildings, a requirement comfortably exceeded by incorporating the Isokorb into the design.

There is also compliance with the Government Standard Assessment Procedure, SAP 2009, concerning CO2 emissions from buildings, and respectively heat losses through non-repeating thermal bridges. Here, the lamdba values of the Schöck Isokorb® enables energy loss through balconies, canopies and other cantilever parts of the building to be reduced by as much as 84% to 91%.

A ‘Specifiers Handbook’ is available which provides an overview and introduction to the Schöck Isokorb®, and there is a thoroughly comprehensive 236 page ‘Technical Guide’ which displays in detail the complete range of thermal break applications for all construction types – concrete-to-concrete, concrete-to-steel and steel-to-steel. One of the modular connection types even allows the retrofitting of balconies in certain situations. At Midleton, it is the KST-007 module for steel-to-steel applications that has been specified.

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The immediate visual aesthetic of the new £27m, 5150m² Stonehenge visitor centre stems from its combination of glass and timber facades. At closer quarters, however, the 36 x 78.4 metres canopy and its 211 canted steel supports undoubtedly take the eye. 3600m² of VMZINC Composite panels in QUARTZ-ZINC® have been used for the underside soffit area, the edge of which has an elaborate pattern of perforations. The multi-layered panels are made up of two 0.5 mm thick zinc sheets bonded either side of a mineral-rich polyethylene core. Though only 4mm thick overall, they offer exceptional smoothness, rigidity and dimensional stability and as a result can be used in lengths of up to 6 metres.

Australia’s Denton Corker Marshall won the competition to build the centre twice. Their first scheme was dropped when government budget cuts forced abandonment of a plan to build a tunnel to hide the A303. They responded to the World Heritage Site requirements by designing another building of contemporary style at Airman’s Corner. A natural palette suited to the rural landscape was a key element of the brief and zinc was chosen for its sustainability, colour retention and self-protecting patina.

The building has been designed to sit lightly in the landscape and to be demonstrably reversible. Its position in one of the lowest lying areas and remote location, distant from residential development, minimises any visual intrusion in the landscape. The contemporary steel structure and lightweight framed walls require minimal substructure so that, if removed, residual environmental impact will be minimal. Attention of up to 1,000,000 visitors each year will undoubtedly be drawn to the zinc by the height of the building which, at up to 8 metres is comparable to the tallest trilithon stones.

In addition to being visually distinctive, the canopy is considered to be one of the most notable architectural elements of the design. The building has been designed to achieve high sustainability targets so local, recyclable and renewable materials were used wherever possible. A sustainable, fuel-efficient approach to heating and cooling greatly reduces energy use and carbon emissions. VMZINC’s ability to demonstrate that over 90% of material used in construction projects is already being recycled.

Energy consumption in zinc manufacturing is also by far the lowest of any metal façade or roofing system. Not only can it be rolled at a lower temperature, less than half the energy is used in the manufacturing process compared with copper, stainless steel or aluminium. Air emissions are as little as 0.05mg/m² while analysis of zinc concentrations in the Rhine, which passes through one of Europe’s areas of greatest industrial intensity, confirms that the balance is well within accepted environmental limits. Such was the interest in zinc that the pod beneath the roof which provides ticketing and guide facilities is also clad in it. It provides a notable contrast to the timber and glass without suggesting that the divergent materials clash. With its range of colours now extending to blue, green, red and brown the scope it provides has never been greater.

VMZINC Perforated Composite Panels At Stonehenge Visitor Centre

Notes from the Comar design team...

Standard profiles range
alons Capped, 2 or 4 sided
Structural Glazing.

BIM ready Models.
Comar keep all profiles
in stock = market
leading delivery.

Highest Ix and Iy values
in the industry.

Concealed vent for
discrete ventilation.

Reassurance: CWCT
Tested, Audited and
Certified to 3500Pa
Sequence B.

Curtain Walling - Capped, 2sided SG and 4sided SG

Comar Architectural Aluminium Systems have designed additional mullions, transoms and feature cover-caps to Comar 6EFT to launch the most comprehensive 50mm curtain wall system available today. After extensive research with our architectural and fabricator network we are pleased to offer additional high span mullions and transoms with the highest Ix and Iy values in the industry, allowing you to span further or keep the same flush box size throughout glazed areas.

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

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

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

Curtain Walling - Capped, 2sided SG and 4sided SG

For more information about comar6EFT please contact us:
Tel: +44(0) 20 8685 9685
Email: projects@parksidegroup.co.uk
Web: www.comar-alu.co.uk

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Enquiry 99

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