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October 2015



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Cover image: Into the world of Art by EXCLAIM
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Zaha Hadid announced as 2016 Royal Gold Medal winner

The Royal Institute of British Architects has announced that the globally-renowned architect Dame Zaha Hadid will receive the 2016 Royal Gold Medal, the first woman to be awarded the prestigious honour in her own right.

Given in recognition of a lifetime's work, the Royal Gold Medal is approved personally by Her Majesty The Queen and is given to a person or group of people who have had a significant influence "either directly or indirectly on the advancement of architecture". Awarded since 1848, past Royal Gold Medallists include Frank Gehry (2000), Norman Foster (1983),

Ludwig Mies van der Rohe (1959), Le Corbusier (1953), Frank Lloyd Wright (1941) and George Gilbert Scott (1859).

Zaha Hadid is internationally known for her built, theoretical and academic work. Each of her dynamic and innovative projects builds on over thirty years of revolutionary experimentation and research in the fields of architecture, design and urbanism.

RIBA President and chair of the selection committee, Jane Duncan, said: "Zaha Hadid is a formidable and globally-influential force in architecture. Highly experimental,



© Mary McCartney

rigorous and exacting, her work from buildings to furniture, footwear and cars, is quite rightly revered and desired by brands and people all around the world. I am delighted Zaha will be awarded the Royal Gold Medal in 2016 and can't wait to see what she and her practice will do next."

NEW EVENT

New event brings lighting and architecture together

lightspace dot london is a new, free to attend, inspirational lighting event for architects, lighting designers and artists that features two days of curated, engaging content from inspirational international speakers. Alongside the speakers will be an exhibition of next generation luminaires from global brands such as iGuzzini, Zumtobel, Hess and Hoffmeister. lightspace dot london will take place on Wednesday 18 to Thursday 19 November 2015 at London's ExCel. Event opening times are Wednesday – 9am-9pm and Thursday – 9am-5pm.

The theme of lightspace dot london is the integration of electric and natural light and uniquely, half the speakers will be architects and half will be lighting designers and artists.

"With this event, we wanted to bring the two professions together to promote dialogue and the cross fertilisation of ideas", says Programme Director Ray Molony. "We feel strongly that the best projects are delivered when the barriers between the disciplines are broken down.

To truly integrate electric lighting into buildings and architecture, we need to work together and be inspired by each other. It's the integration of both electric and natural lighting into architecture where the magic really happens."



Confirmed speakers include the lighting designers Andreas Shultz, Tim Downey, Rogier van der Heide and Paul Traynor, architects John McRae and Ben Adams and architect-turned-inventor Xaveer Claerhout. Rogier van der Heide, whose TED talk has racked up half-a-million views, will explore the role of

contrast in contemporary spaces in a session entitled Darkitecture: Shadows and contrast in the built environment.

A series of panel discussions will look at issues and themes common to both professions. One will promote debate on how lighting design can be democratised and brought to everyone in the form of 'social lighting'. Another by architect Ben Adams asks 'why is it easier to get a landscape designer appointed to a project than a lighting designer?'

lightspace dot london is part of Europe's largest annual lighting event as it's co-located with LuxLive, the UK's largest lighting exhibition, and Strategies in Light, Europe's leading LED lighting conference, so attendees can see the whole lighting market in one place.

Innovations and the latest designs from the leading names in architectural lighting will be out in force, including Zumtobel, iGuzzini, Hess, Selux, Hoffmeister, LED Linear, Anolis, Forma, Rako, GVA, Rako, Applelec and Unilamp UK.

NEW DEVELOPMENT

First impressions count at Verde SW1



Global real estate developer Tishman Speyer has unveiled the first images of its dramatic triple height reception at new development Verde SW1 in Victoria designed by cutting-edge international architects Aukett Swanke and Adjaye Associates.

Verde SW1's striking reception on Bressenden Place, which is situated directly opposite a new entrance to Victoria station, one of London's most important travel interchanges, has been designed to create a powerful first impression. The reception space will be bathed in natural light and has been designed to reflect the scale of the building as a whole – 282,000 sq ft of Grade A office space spread over ten floors, featuring its own 20,000 sq ft park in the sky with views of some of the capital's most famous landmarks.

With projects such as Google's new offices in Istanbul, Skype in Prague and Phillips Auction House at Berkeley Square in London in their portfolio, Aukett Swanke is renowned for creating innovative and aesthetically striking buildings, designed to be recognised as some of the most iconic landmarks around the world. Adjaye Associates is an award-winning architectural and design firm established by founder and principal architect, David Adjaye OBE with past projects including

Selfridges in London and Manchester and the Nobel Peace Center in Oslo.

Luke Schuberth, UK Managing Director at Aukett Swanke, said: "First impressions count and the reception space at Verde SW1 was one of the key concepts in creating the presence to attract the best occupiers."

Designed with the health and wellbeing of the future occupier in mind, Verde SW1 will incorporate six large landscaped roof terraces, which feature spectacular views over Buckingham Palace and the Royal Parks. The building will have dedicated cycle access, storage for 400 bicycles and 40 folding bikes in the basement, 40 showers and 400 lockers, changing facilities and a reception cafe.

Tishman Speyer is committed to bringing expertise and innovation in sustainable design to every project. Verde SW1 offers a suite of sustainable and environmental features designed to reduce consumption while enhancing the everyday lives of those working in and visiting the building. Design features and sustainable technologies include heat recovery and cooling systems, advanced online energy monitoring for tenants, high efficiency fan coil units and boilers; providing optimum energy efficiency throughout the year. The building is expected to achieve a BREEAM Excellent rating and EPC 'B' rating when it is complete.

Verde SW1 is located in the heart of bustling Victoria, an area currently undergoing a radical transformation. Victoria is one of London's fastest-growing centres for entertainment and nightlife offering a wealth of theatres, shops, hotels and eateries. Other notable businesses to have moved into the area recently include Rolls Royce, Burberry, Tom Ford and Jimmy Choo.

Tishman Speyer acquired the site in January 2012 and was granted planning permission by the London Borough of Westminster in April 2014. Work began in September 2014 when the previous tenant vacated the building and the scheme is expected to complete in Q2 2016.

events

AWARDS

British Homes Awards

16 October, London
britishhomesawards.co.uk

Brick Awards

18 November, London
www.brick.org.uk/brick-awards

TRADE SHOWS

Healthcare Estates

20 - 21 October, Manchester
www.healthcare-estates.com

Independent Hotel Show

20 - 21 October, London
www.independenthotelshow.co.uk

Greenbuild Expo

10 - 11 November, Manchester
www.greenbuildexpo.co.uk

Buildings and Energy Efficiency

10 - 11 November, Manchester
www.beecexpo.co.uk

lightspace dot london

18 - 19 November, London
www.lightspace.london

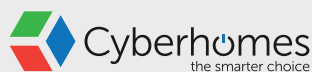
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AWARDS

The 2015 SBID Awards finalists revealed

The finalists of the 2015 edition of the SBID International Design Awards have now been revealed. This year alone, the awards received entries from 41 countries including South Korea, Egypt, Qatar, Scandinavia, Canada, Taiwan, Russia, New Zealand and much more.

The increased volume of entries has resulted in the biggest selection of finalists to date including Hotel Design projects such as the Virgin Hotel Chicago, USA; Kempinski Hotel Changsha, China and Nobu Hotel Manila, Philippines; Retail Design projects including the Fred Perry and Watches of Switzerland stores in London plus Office Design projects including commercial giants; UBM and Red Bull.

The 14 categories range from best Healthcare Design, Retail Design and Intelligent Design to best KBB Project, Public Space and Visualisation. The public was invited to vote for their favourite finalists which will account for 30 per cent of the final results.

The winners will be announced and awarded with the crystal SBID International Design Awards 2015 trophy at the official ceremony, held at The Dorchester hotel London on Friday 27 November 2015. An overall winner

Award will also be awarded to the project that comes out on the top after an amalgamation of the judge's choices and the public votes have been considered.

The judges this year included Lewis Carnie, head of programmes at BBC Radio 2 & 6; Sir Michael Dixon, director at the National History Museum, London and Robert Hudson, chief executive of the National Association of Shopfitters; Kevin Mau, senior creative director at The Boeing Company; Ben McOwen Wilson, director of content partnerships at YouTube; Jane Preston, facilities manager UK, Real Estate & Workplace Services at Google; David Lewis, managing director of Sunseeker London; Mathew Dalby, Creative Director at The Studio at Harrods; Carolina Calzada, managing director at Global Color Research; Patrick Taylor, managing director of Taylist Media; Theresa Dowling, editor and group editorial director for Progressive Market Intelligence (FX, Blueprint).

All of the winners and finalists will be featured in The Global Interior Design 2015 coffee table book.

For more information on the SBID Awards, visit www.sbidawards.com



Into the world of Art by EXCLAIM UNITED CORP, Taiwan;
Finalists of the Public Space Category in the SBID Awards 2015

NEW ICONIC STATION

Nottingham's newest fire station takes shape on site

WORK to build a brand new £3.7 million fire station on Nottingham's London Road is progressing well as the building's steel structure is taking shape on site.

The state-of-the-art building will house three fire engine bays, modern training facilities and office space for Nottingham City Council's Emergency Planning Team.

Nottingham-based architects, CPMG designed the building which is now being constructed by J Tomlinson, with the

project managed by Turner & Townsend.

Well placed to respond safely and quickly to emergency calls, the three-storey building will replace the iconic Central Fire Station which has served the city centre and surrounding area since the 1940s.

Aiden Bell, architect for CPMG said: "Our design meets all the practical needs of a fire station ensuring a safe and firm response time to an emergency, whilst being sympathetic to the city's southside regeneration plans.

"The layout of the building design means that fire engines exiting the bays do so where there is high visibility from other drivers, we've included a training tower which is housed at the rear of the site and full height windows to increase natural daylight into the internal areas.

Martin Gallagher, construction managing director for J Tomlinson said: "The project, which is based on one of the main arterial routes into Nottingham, is a great honour for J Tomlinson, as the chosen contractor, to construct."

NEW FLAGSHIP BOUTIQUE DESIGN

Bureau fashions the interiors of French lifestyle clothier's Moscow flagship

'Materials and finishes in a palette of natural tones define the visual character of the store'

Oleg Klodt Architectural Bureau has recently completed the design and fit-out of a new flagship boutique in Moscow for cult French lifestyle fashion clothier 'LOFT design by...'. The store interior effortlessly channels the brand's philosophy for simplicity, comfort and elegance in clothing aimed at the global nomad of today and now introduced to a Russian clientele.

The designers responded to the client's brief for an iconic and remarkable interior whilst encapsulating the international unisex style of the brand with a concept that suggests a liveable space where, surrounded by familiar materials and time-worn objects that link past and present, customers can experience a sense of 'feeling at home' while browsing the chic apparel.

Materials and finishes in a palette of natural tones define the visual character of the store. Walls panelled in slabs of light coloured 'concrete' riveted in place and matte tile flooring of a similar pale grey shade provide a neutral backdrop. Structural columns are wrapped in tarnished sheet metal to accentuate their presence and the same dark metallic



finish is used to frame the large-scale dressing mirrors and high display tables as well as the light fittings.

To balance and soften a somewhat utilitarian aesthetic, display cabinets and shelving have been manufactured in a warm walnut timber with retro cabinet drawer pulls. Objects sourced from London flea markets like loose furniture, an old cash register, and photos were

imported specially to Moscow, while pre-loved books on art and travel line shelves and are arranged in old-fashioned suitcases to be imagined as travel memorabilia. These individual and charming elements impart a subtle sense of familiarity and history that can offer reassuring comfort in a time of uncertainty. Overall the interior design of the store perfectly complements the savoir-faire of LOFT's attire as items suitable for any time or place across the globe.

"I loved designing this project," says Oleg Klodt, "and not only because we pleased both the client and the French owners by fulfilling their aspirations. We used a lot of plywood when fitting-out the interior, which brought back happy memories from the beginning my career, and in the process I was able to rediscover the beauty and versatility of this simple, low-cost material. Industrial finishes and decorative details such as rivets, joints, bespoke fittings, and distinctive, retro-inspired lights all came together to result in an intriguing juxtaposition between raw materials and refined tailoring."

World's largest indoor ski arena gets go ahead

Lørenskog local authority has just granted planning permission for our scheme entitled 'Winter Village' in Lørenskog, Norway.

When built 'Winter Village' will become the world's largest indoor ski arena. Designed for both cross country, free ski and downhill skiing, it will also be Norway's first indoor ski arena.

The ski resort in Ødegarden is situated next to Lørenskog train station and is planned to open before 2017. With the nearest indoor ski centre located across the Swedish border in Torsby, Selvaag's ski arena



will give access to skiing in summer for local people as well as elite athletes who need all year round training locations for skiing.

This ground-breaking 140,000 sqm

scheme will house a 37,000m² ski resort. The cross-country trails will now be built over three floors giving skiers a total of 3,000 metres of cross country skiing. The facility will also include a conference hotel with 350 rooms, a service centre for skis and equipment, service rooms for clubs and teams, classrooms and offices, as well as commercial premises, and a sports academy for Norwegian ski sports.

Chapman Taylor has designed the masterplan in collaboration with the renowned Norwegian architect Prof. Thomas Thiis-Evensen.



Architect: Pidd Everard, Leicester – Photographer: Paul Kozlowski

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BD Architect of the year Awards launched

Now in its 12th year, the AYA's are unique in rewarding architectural practices for the best body of work in 15 different categories. As part of its continuing success the awards will take place during Ecobuild at Excel, London, on 9 March 2016.

Ecobuild is the leading event for the built environment and includes a comprehensive conference and seminar programme and an exhibition of cutting edge construction products which attracts over 5,000 architects each year. As part of this packed education programme, 9 March is Ecobuild's Architecture day which will include a full programme of talks and debates hosted by broadcaster Will Gompertz and writer Jonathan Meades, on architectural issues and will feature leading architects, clients and architectural critics.

The move is part of a major investment by UBM, the organiser of

the BD Architect of the Year Awards to offer the architectural community a richer experience and create a bigger and better event as the AYA's have outgrown the Brewery in the City of London.

The move has been well received by the BD Architect of the Year Awards sponsors, Schueco a leading specialist in doors, windows and cladding systems, who returns as the Gold Award sponsor which is presented to the practice that the judges consider to have made the most significant contribution to British architecture in the past year. The winner is drawn from the winners of the other Architect of the Year categories which include Individual House Architect of the Year, Office Architect of the Year and Education Architect of the Year.

New for 2016 is the BD AYA Best Building of the last 12 Years Competition. Launched to celebrate

12 years of the AYA's, in the run up to the awards the BD audience will put forward suggestions for the best building of the past 12 years. Awards attendees will have the opportunity to vote live from the shortlist for their Best Building of the last 12 Years. All the shortlisted practices and winners will also be extensively featured in BD.

Thomas Lane, editor of BD said: "The move to Ecobuild is a great opportunity to offer our audience a richer experience with the opportunity to gain insights into the work of leading international architects, learn about the latest best practice approaches to design challenges and network with clients and other industry professionals. The day will culminate with the BD Architect of the Year Awards which will be our biggest and best in the history of the awards and will be a night to remember."

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The City of London Building of the Year 2015 winner announced

The Leadenhall Building designed by Rogers Stirk Harbour and Partners and developed by British Land and Oxford Properties is the winner of the inaugural City of London Building of the Year award.

The winner was selected from some 15 city buildings whittled down to a shortlist of four, including new construction, extensions and refurbishments. The three buildings to join the Leadenhall building on the shortlist were St Bartholomew's Hospital by HOK, 8–10 Moorgate by Allies and Morrison and 6 Bevis Marks by Fletcher Priest.

The City of London Building of the Year 2015 award was presented at a prestigious event, attended by Lord Richard Rogers, on 16 September at the Architects' Company Installation Court Lunch at the Stationers' Hall. The winner and all of the shortlisted entries were unveiled in an exhibition that is open to the public, running from 17 September to 16 October, in the City Centre in The Guildhall.

The shortlist and winner were assessed by a jury chaired by Paul Finch, programme director of the World Architecture Festival. The criteria was to seek out the buildings that support the ambitions of the City of London in delivering a world-class working environment, by evaluating both the quality of the architectural design and the impact the building has had on the city street scene.

Organised by the Worshipful Company of Chartered Architects (WCCA), the City of



*'The City of London
is home to some
very fine
examples of
contemporary
architecture'*

Master Elect of the WCCA
Peter Murray

London Building of the Year, allows members of the public to nominate a building of their choice and aims to recognise the extraordinary examples of contemporary architecture across the London cityscape.

Master Elect of the WCCA Peter Murray commented: "The City of London is home to some very fine examples of contemporary architecture. We are keen to support good design and to encourage City businesses to do so in the future."

The City of London Building of the Year Award Supporters' Group includes Axa Real Estate, British Land, Brookfield, Cushman and Wakefield, Knight Frank, Land Securities, WRBC Development and Wordsearch.

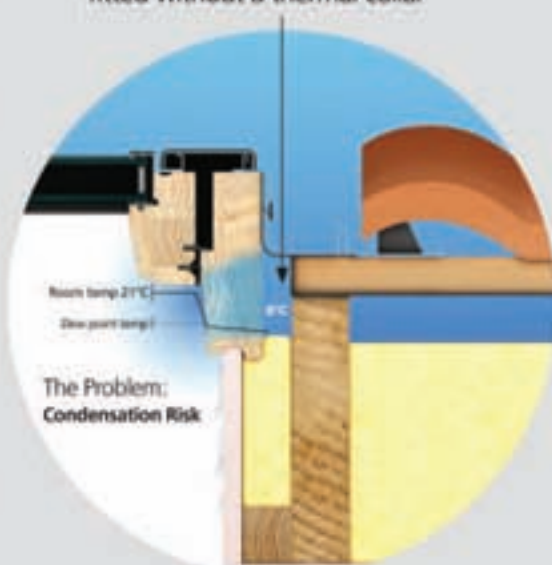
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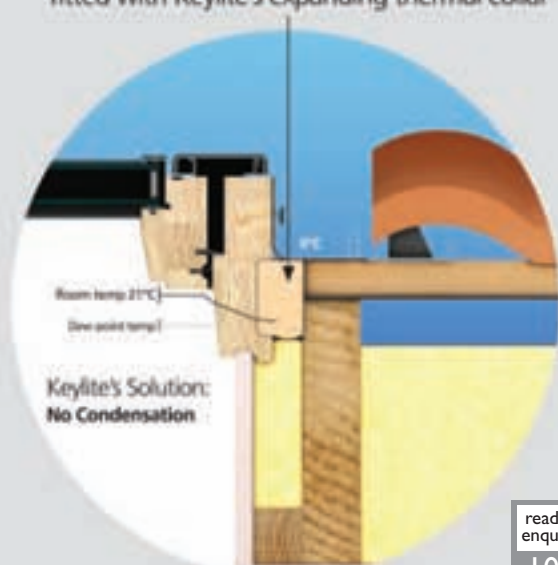
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ICONIC EUROPEAN RESIDENTIAL TOWER

Zlota 44 – Launch of one of Europe's tallest towers



US-based real estate investment manager Amstar and Polish developer BBI Development S.A., are undertaking with Savills the international launch of Zlota 44, one of Europe's tallest and most luxurious residential towers, located on Ulica Zlota (Gold Street) in central Warsaw.

Designed by world renowned architect Daniel Libeskind, the iconic 192 metre (629 ft) high 52 storey tower dominates the city's skyline and provides 287 one, two and three bedroom apartments and penthouses complete with business, leisure, concierge and parking facilities. The design of the tower makes each apartment unique in size and layout, with a wide range of floor plans. Typical apartments range from 660 sq ft up to 3,224 sq ft, with penthouses and several full floor residences reaching up to 10,000 sq ft in size.

The tower offers residents an unmatched living experience, providing world class amenities and services that create a community and lifestyle that does not exist elsewhere in the Polish property market.

On the eighth floor of Zlota 44 is a 15,000 sq ft leisure and entertainment complex for the exclusive use of residents and their guests.

Commenting on the architectural design of Zlota 44, Daniel Libeskind said: "The concept and design of Zlota 44 first came to mind as I was reflecting on the city, which has been resurrected after ages of destruction and oppression. I wanted to capture both the Warsaw of the past and the future in one specific shape, as well as give a sense of the freedom and affirmation of everyday life today. More than anything, I was inspired by the identity and the potential of this amazing city."

The tower will complete construction mid-2016, with first residents scheduled to move in at the end of 2016. With one, two and three bedroom furnished show apartments and a sales suite now in place on the 50th floor the developers have decided to launch the project's international sales campaign in conjunction with Savills.



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RIBA Future Trends Survey for August 2015 shows pause after optimistic summer for architects

The RIBA Future Trends Workload Index changed little in August 2015, dropping one point to +21. All nations and regions in the UK returned positive balance figures, with the North continuing to be the most optimistic about future workloads (returning a balance figure of +42). Practices in London (balance figure +17), the South (balance figure +12) and the Midlands and East Anglia (+14) are more cautious about workload growth over the next quarter.

Large practices (51+ staff) indicated a plateau in workload levels, returning a balance figure of zero; small practices (1–10 staff) and medium-sized practices (11–50 staff) remain more confident about increasing workloads in the medium-term (balance figures of +18 and +36 respectively). Despite the recent change in our headline index, the forecast is firmly in positive territory; the value of actual work in progress is still growing at an annual rate of 8 per cent.

The private housing sector forecast continued its downward trajectory, falling to +18 in August (down from +23 in July). The public sector workload forecast also decreased, down to -4 in August from -1 in July 2015. The commercial sector workload forecast increased by one point to +14, while the community sector forecast was unchanged, standing at +1 in August.

The RIBA Future Trends Staffing Index saw a modest decline this month, falling to +7 in August (down from +12 in July). 96 per cent of surveyed

practices nonetheless expect their permanent staffing levels either to increase or to stay the same over the next few months, indicating that the employment market for salaried architects remains buoyant.

Medium-sized practices (with a balance figure of +32) and large practices (balance figure +20) are more likely to be actively appointing new staff than small practices, which returned a balance figure of +2 in August.

RIBA Executive Director Members Adrian Dobson said: “After an optimistic spring and early summer, the profession appears to have paused for breath after a period of significant growth. This note of caution is most prominent in the South and East, which have so far seen the greatest growth, whilst confidence now seems higher in the northern cities. There is also a noticeable loss in confidence about medium term prospects for the private housing sector, with our practices suggesting that a temporary peak is being reached in this sector.

“Commentary from practices suggests that the majority of firms are seeing solid growth in workloads, with a number reporting that market conditions are enabling them to negotiate better fee levels. There is plenty of anecdotal evidence of practices across the UK having difficulties in recruiting experienced staff with specific skill sets. The overall picture is one of continued increases in workloads, though with a consensus that in the coming months the pace of growth is likely to slow significantly.”

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NEW HOSPITAL

Alder Hey Children's Hospital opens to patients



Alder Hey Children's Hospital was officially unveiled on 1 October after two and a half years of construction, and is now ready for its first intake of patients.

BDP provided architecture, landscape architecture, interior and graphic design for the £237 million 274 bed hospital for Alder Hey Children's NHS Foundation Trust.

The new 60,000 sq m hospital, set in beautiful parkland, is instantly recognizable, even from a distance: a striking identity that stands in deliberate contrast to the typical idea of a hospital.

The brief by Alder Hey Children's NHS Foundation Trust called for a unique paediatric environment that, together with adjacent Springfield Park, would form an integrated Children's Health Park. The design drew on BDP's experience of schools and previous paediatric hospitals like the Royal Alexandra Children's Hospital, Brighton, completed in 2007.

Ged Couser, project architect director says: "The challenge set by the Trust's design vision emphasised innovation, child-centred identity and clinical best practice. They said: 'If we've seen it before, it's not for us.' While recognising that the building needed to be clinically functional, the concept of the building as a 'hill in the park' came to us very early on in the design process.

BDP's design was driven by the knowledge that the experience of taking a child into hospital can be very stressful. The design creates a wonderful place filled with daylight,

colour and views out to the landscape to make that experience as pleasant and positive as possible.

Central to BDP's thinking was ensuring that the majority of rooms, whether for children or staff, enjoy park views and that gardens and terraces are equally accessible to all.

Three open 'fingers' radiate out from the atrium concourse that forms the hospital's public hub. These fingers of clinical space alternate with gardens, intertwining building and landscape.

The flowing green roofs have wildflower meadows growing on them, and running around the top of the building is a silver parapet which creates a continuous playful ripple.

Ged Couser says: "We believe that we have created a truly world class new hospital that will benefit the patients, their families and the staff who care for them for years to come.

"BDP worked closely with the Trust, their Children and Young People group and their families as the design to ensure that the final vision represented their own. We have created an environment where architecture, interior design, graphic design, landscape design and art, produced by the lead artist Lucy Casson, have all come together to create an amazing place, all underpinned by an efficient clinical plan."

Ben Zucchi, design director on the project said: "We are incredibly proud of this project which represents another significant step forward in our mission to humanise hospital design."

The Future of Facades

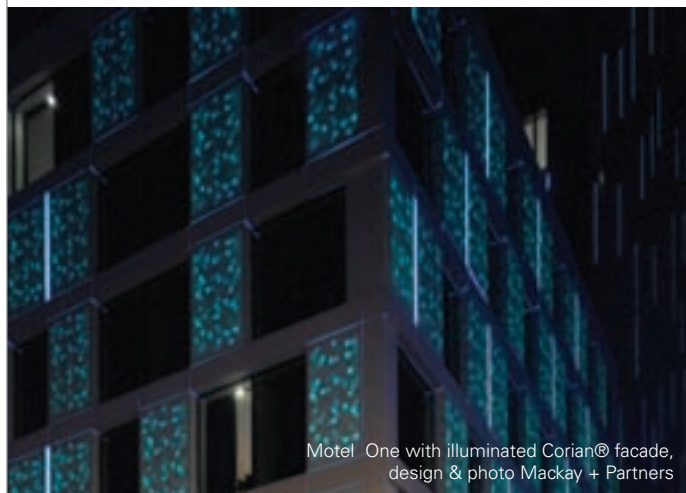
DuPont™ Corian®

with Alison Brooks of
Alison Brooks Architects

Present an evening seminar on
November 11th from 6pm at RIBA, London



Award-winning Lens House with Corian® façade by ABA,
photo Jake Fitzjones



Motel One with illuminated Corian® façade,
design & photo Mackay + Partners

Please join us for presentations, discussions and refreshments. Please register at:
www.future-of-facades.corian.com
or call 0800 962 116 or email register@corian.co.uk



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international focus

Visit the website www.architectsdatafile.co.uk and enter the reference number for more information



NAIROBI SHOWGROUND, KENYA
BENOY

Working with the Agricultural Society of Kenya (ASK), the Benoy Team has been tasked with designing the Concept Masterplan for the Nairobi Showground, a new 131ha, sustainable destination for the people of Nairobi. This design for this scheme, set in a prime spot with close proximity to airports and landmarks, embraces the local culture of Kenya and Nairobi residents. The design will create an inclusive urban economy with efficient transportation systems, thus raising Nairobi's offer as a strong and healthy city to live in and visit.

Ref: 21374



TAHOMA HIGH SCHOOL AND REGIONAL LEARNING CENTER, UNITED STATES
SKANSKA

Skanska has signed a contract with its existing client, the Tahoma School District, to build the new Tahoma High School and Regional Learning Center in Maple Valley, Washington.

The project includes building of new facilities totaling about 30,000 square meters. The scope of work also includes new athletic fields and gymnasiums. Skanska will also construct a 600-seat performing arts center. Construction is under way and the project will be completed in time for the 2017-18 school year.

Ref: 57030



CHINA INTERNATIONAL TRAVEL SERVICE (CITS) SANYA EYOT DEVELOPMENT, CHINA
BENOY

This is Benoy's first mixed-use Masterplan and Architecture commission on China's famous island and southernmost province, Hainan. The scheme will introduce a 32,000m² mixed-use, retail-led destination which will be differentiated from the traditional retail projects currently in Haitang Bay. Benoy's Masterplan has prescribed strategies for celebrating the island landscape, placemaking and multi-layered environments, to establish a point of difference for this high-profile future scheme. Taking inspiration from Sanya's local fauna, the Egretta Garzetta formed the concept behind the architecture of the development; the sweeping architectural lines mimic the graceful movement of the birds.

Ref: 79774



HOTEL HAGASTADEN, SWEDEN
SKANSKA

Skanska has developed a combined hotel and office building in Hagastaden, Stockholm, Sweden. The construction assignment is worth approximately SEK 440 M. The new building is located adjacent Hagaplan in Hagastaden, close to the proposed metro station and adjacent to the main entrance of the hospital New Karolinska Solna. The building will be 16 storeys high with garage below ground level and a total gross area of 16,200 square meters. The hotel occupies eleven floors with a total of 222 rooms, a restaurant and conference facilities.

Ref: 20154



PORCELANOSA SHOWROOM, UNITED STATES
FOSTER + PARTNERS

The new flagship Porcelanosa showroom has opened in New York in the former Commodore Criterion building, situated within the Landmark 'Madison Square North History District'. The refurbishment of this early 20th Century building – located opposite the Flatiron Building in Manhattan – continues the practice's work with historic structures in the US, such as the Hearst Tower in New York and the Museum of Fine Arts, Boston. The transformation of the historic building was also an opportunity to improve its energy performance. Cooling is achieved through efficient closed loop chilled water systems.

Ref: 75515

PROTECTING OUR HERITAGE

TREATING DAMP AND WATER INGRESS IN HISTORIC AND LISTED BUILDINGS

With many historic and listed buildings not benefiting from modern methods of damp proofing or waterproofing, they are often subject to the detrimental effects of rising and penetrating damp. The fundamental challenge when dealing with buildings of special architectural or historic interest is therefore to maintain structural and aesthetic integrity, whilst remaining sympathetic in the product application and still achieving the desired effect.



Newton cavity drain membranes were applied to the interior vaults throughout the Grade 1 Listed **Royal Courts of Justice, London**.



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SOLID SURFACES CPD SEMINAR



CD (UK) Ltd, the exclusive UK distributors of Corian® – Seminar structured as follows: Development of Solid Surface from 1960's to present day; Raw materials, adhesives and composition; Solid Surface characteristics and benefits; Manufacture: Sheet, Matrix sheet and shape product; Comparison of characteristics; From production to fabrication process; Properties of Solid Surface; Architectural and Design possibilities; Current applications; Environmental considerations; Support, warranty and service infrastructure.

0113 201 2240
www.cdukltd.co.uk

enq. 112

STEP ON IT!



Quantum Flooring Solutions' CPD looks at the guidelines for the specification of a safe stairway. The presentation deals with the subject of how to make commercial stairways safe and meet with all current building regulation guidelines. The CPD presentation includes: What stair nosings are designed to achieve and how to select the right one; Key Legislation and Industry Standards; How recent BRE and Equality Act (Formerly DDA) guidelines affect specifications; Environmental and Health and Safety considerations; Examples of best practice. The seminar lasts 5-60 minutes including time for a Q and A session. All seminars are part of the RIBA core curriculum syllabus and earn double CPD points for those attending the seminars.

0161 627 4222
www.quantumflooring.co.uk

enq. 114

HOW TO DESIGN AN EFFICIENT LAUNDRY IN A CARE HOME

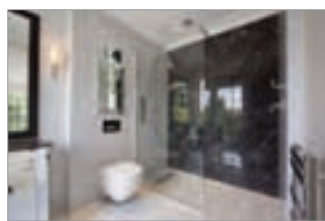


The RIBA approved CPD material tackles the topic of how to design an efficient laundry in a care home, using **Miele Professional's** decades of experience in the field. The seminar aims to give architects a deeper understanding of the implications of regulations that need to be considered in care home; the machines and services required; and offers best practice examples of room size and layout. It also covers environmentally friendly solutions, and ideas for future proofing the laundry room, something that Miele is a particular specialist in due to developing its range of energy-efficient machines for care homes. The presentation gives background on the care home market and the very specific requirements of this area, before moving on to design considerations. The material marks the first time that Miele Professional has moved into developing CPDs and is the first in a line of seminars being created for different commercial environments. Les Marshall, sales and marketing director for Miele Professional, commented: "We are really pleased to have been working with RIBA to get our material accredited. Miele Professional has decades of experience in supplying care homes, and so we have a deep understanding of what this market needs. "We hope to benefit architects designing care homes through this course, and pass on some of the knowledge gained over the years." Information about Miele Professional and the seminar can be accessed through the RIBA Product Selector.

01235 233491
kate.jones@miele-professional.co.uk

enq. 115

WETROOM DESIGN AND SPECIFICATION



The popular Wetroom Design & Specification CPD from **CCL Wetrooms**, guides Architects through the process of designing and specifying a watertight wetroom. The free, 45 minute technical presentation can be organised at a time to suit the practice and covers the key considerations of designing and specifying a wetroom. This includes wetroom design & layout, waterproofing, drainage, floor build up and installation. A section on how wetrooms can help meet the Lifetime Homes Standard is also covered.

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

enq. 113

ROOFGLAZE SPECIFYING FLATGLASS ROOFLIGHTS



Roofglaze is a market-leading UK manufacturer of Flatglass Rooflights, with extensive experience in the design, manufacture, supply and installation of high-quality daylighting solutions. Its new CPD seminar, 'Contemporary Rooflight Solutions: A Specifier's Guide to Flat Glass Rooflights', is now RIBA-approved and available for presentation at your offices. Handily for architects looking to accrue their required CPD hours, the new CPD seminar is part of the RIBA Core Curriculum, doubling the amount of points you will receive for attending.

01480 474797
www.roofglaze.co.uk

enq. 116

SELECTING EFFECTIVE AND SECURE FLAT ROOF SYSTEMS



Sika Sarnafil is pleased to announce the new RIBA approved CPD for Sika Sarnafil entitled Selecting Effective and Secure Flat Roof Systems. This CPD introduces the key components for a successful and effective roof system, covering design, materials and workmanship. An outline of additional areas included is below:

- typical application areas
- key factors in roof design and product selection
- key standards and guidelines
- sustainability
- typical challenges
- quality assurance
- history and group information

For over 50 years Sika Sarnafil has provided high quality single ply roofing solutions, backed by decades of expertise and market leading guarantees. Sika Sarnafil's exemplary commitment to training is widely recognised in the roofing industry, and this commitment extends to the Continual Professional Development of construction professionals. The company's range of RIBA accredited CPD seminars support specifiers, contractors and clients' understanding of the issues surrounding the specification of single ply roofing. If you are looking for assistance for selecting an effective and secure flat roof system and require further information on this seminar please contact Sika Sarnafil.

01707 394444
sarnafilroofing@uk.sika.com

enq. 117

NORCROS ADHESIVES' TWO NEW RIBA APPROVED CPD SEMINARS

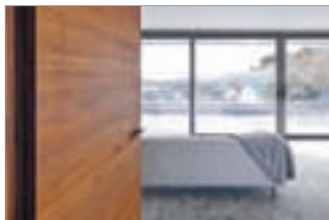


Architects and specifiers are set to benefit from two new CPD seminars from tile adhesive and self levelling manufacturer **Norcross Adhesives**. The Norcross CPD seminars cover the subjects of Reinforced Polymer Technology for Tiling and Avoiding Common Failures when Specifying Wall and Floor Tiling. The new seminars can be delivered in a variety of different ways. As well as traditional seminars, the CPDs can also be viewed online via YouTube or the company's website.

01782 524140
www.norcros-adhesives.com

enq. 118

URBAN FRONT NEW WORKSHOP TOUR 2015



The Workshop Tour from **Urban Front** will run for just over an hour and incorporate the following Learning Outcomes: A good understanding of how a contemporary hardwood door is manufactured; a better understanding of the types of hardwood and their benefits; a good ability to interpret CADs used for manufacture; a better ability to specify doors correctly; an understanding of the various issues related to making doors. The company also runs regular CPD's on specifying Hardwood Timber doorsets.

01494 778787
www.urbanfront.co.uk

enq. 119

INTRODUCTION TO THE LIQUID ROOFING AND WATERPROOFING ASSOCIATION



The **LRWA** has launched its RIBA approved CPD, available online for specifiers, architects, and surveyors. "CPD's are crucial for anyone working in the construction industry," commented Terry Wain, LRWA technical secretary. The CPD should take around 25 minutes to complete and includes information on the history of liquids and the various ways in which LRWA aims to promote best practice within the industry.

0207 448 3859
www.lrwa.org.uk

enq. 120

GREENING THE GREY



Scotscape is pleased to announce its CPD Greening the Grey, which aims to assist both specifiers and architects when designing and selecting living wall systems. It covers the benefits of living wall systems, good design, installation and maintenance, and the specialist irrigation required to achieve a successful living wall. Scotscape has developed a Fabric Living Wall System with integrated insulation, allowing specifiers to quantify the thermal benefits and energy efficiencies that this system brings.

020 8254 5000
annar@scotscape.net

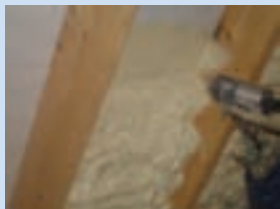
enq. 121

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Icyne is the only foam on the market successfully tested and certified for applications directly to the underside of breathable and non breathable roof membranes and felts and recently received BBA certification for this application. Icyne absorbs the lowest amount of moisture and has the highest level of vapour resistivity of any soft foam on the market.



enq. 123

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editor's focus

1. EYESTONES

Sync-box, from Eyestones, is a totally unique recessed power & AV socket, for use when installing wall mounted flat screen televisions. Essentially it is designed around a standard double socket space using the same module components already being used throughout the globe.

Sync-box is recessed by 40mm and has a unique cover plate which when in location, has a slender 10mm profile. Therefore, it is now possible to install a new ultra thin LCD or LED screen with all cables connected professionally and stylishly behind the screen.

enq. 124



2. SAMUEL HEATH

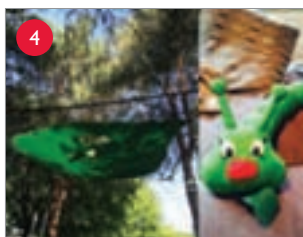
Powermatic concealed door closers are becoming increasingly popular with specifiers, estates managers and clinicians throughout the healthcare sector thanks to the many health, safety and hygiene benefits that they deliver. Totally concealed when the door is closed, Powermatic offers few surfaces on which dust and potentially harmful detritus can accumulate. Their low mounting height also simplifies inspection and cleaning procedures. Where safety is concerned, Powermatic door closers are ideal for anti-ligature and anti-barricade applications in post-natal depression and psychiatric care facilities as well as secure units. Their concealment also means that they are less likely to be vandalised, significantly enhancing reliability of the closer.

enq. 125

3. DEMON DESIGNS

Demon Designs is serious about staircases and balustrades. It has years of experience designing and fabricating staircases and balustrades, and understands the complicated issues like avoiding swan-necks, stair overlaps and compliance with Building Regulations. It has brought together its collective experiences in both metalwork and glazing to offer the complete architectural glass package. The company works closely with engineers, architects and clients to provide the design solution the clients require. From staircase and balustrades to splashbacks and shopfronts, it can design and install virtually anything in glass. Demon Designs is always looking for complicated projects like this, and are more than happy to receive your tender enquiries.

enq. 126



4. JECKELLS THE SAILMAKERS

Jeckells the Sailmakers has recently installed a very unusual shade sail at the Holly Lodge Centre in Richmond Park to help educate children about the great outdoors.

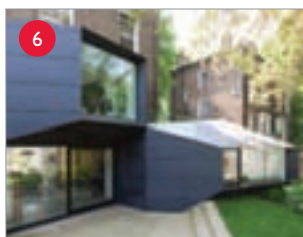
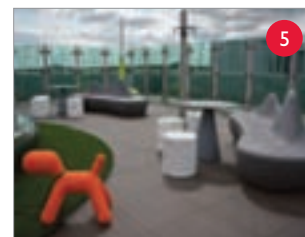
The brainchild of Stewart Perkes at the centre, Jeckells created a giant leaf from green nylon sewn into mesh to give the impression of the leaf floating in the air. The mesh was attached to four surrounding trees with special non-invasive Velcro 'tree gaiters'. The icing on the cake is 'Hannah' the caterpillar, who appears to have chewed a hole in the leaf for added authenticity!

enq. 127

5. THE DECK TILE CO.

The Levato Mono Porcelain paver system is designed for fast, cost effective installation over most surfaces including: single ply membranes, roofing felt and other delicate waterproofing systems. The 20mm thick porcelain pavers are also available in larger formats, are highly abrasion and stain resistant, fire and frost proof and achieve R11 slip resistance – required for outdoor use. With all its features such as height adjustable and slope correcting supports, high load bearing and 45kgs per m², over 40 finishes available (plus co-ordinating internal tiles) Levato Mono is the ideal system for balconies, roof terraces and piazzas – residential and commercial use alike.

enq. 128



6. CD UK LTD

DuPont™ Corian® is increasingly valued as a versatile, high-performance solution for facade systems and has been applied to a wide variety of construction projects internationally, from private villas to hotels and public buildings.

A special event on the future of facades with Stirling Prize winner Alison Brooks is taking place in the Jarvis Suite at RIBA HQ, Portland Place, London, November 11th 2015.

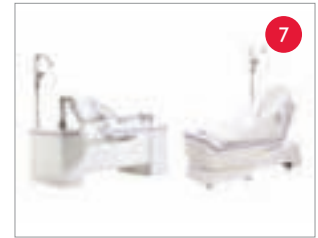
The evening offers a programme of presentations, discussions and refreshments. Participation is free but please register your attendance in advance.

enq. 129

7. GAINSBOROUGH SPECIALIST BATHING

Gainsborough Specialist Bathing has introduced a range of new assistive baths that will deliver significant advantages to architects and specifiers working within the healthcare sector. For 30 years, Gainsborough's specialist hi-lo baths with powered transfer seats have provided the optimum solution for care home and hospital projects. Building on this proven heritage, the new range will deliver significant benefits through: Enhanced sustainability: reduced energy and water consumption to offer an extremely economical, energy efficient bathing solution: Increased operational efficiencies: reduced bathing cycle times allow carers to attend to the needs of the residents more efficiently; Heightened levels of care: greatly improved bathing experience for both bather and carer, with cutting-edge ergonomics and lifting technology.

enq. 130



8. JAMES JONES & SONS LTD

JJI-Joists are the UK's bestselling I-joist, and it's easy to see why they are the joist most specified by architects and engineers. FSC or PEFC certified, they offer the UK's biggest range of standard sizes available from stock, come with design software and technical back up, and the solid timber flanges and OSB web make them easy to work with on site.

This year's £4.5 million investment in a new fingerjointing line to increase output confirms James Jones' commitment to supplying the UK housebuilding industry with the materials it needs to meet the increasing demand for new homes.

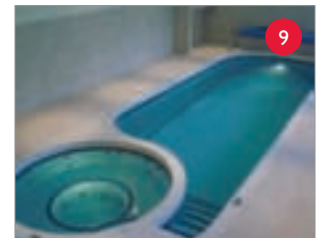
enq. 131

9. SPA DE LA MARE LTD

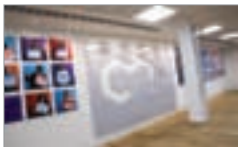
Spa De La Mare Ltd continues to hold the accolade of the world's leading manufacturer of spa pools and swimspas and has recently celebrated its 30th birthday with the launch of the Coliseum II spa, the piazza II spa and the unique Cleopatra V Swimspa.

These luxurious additions to the company's portfolio are proving successful in the company's already bursting catalogue. Its unique, full foam insulation ensures that the spas run economically all year round, a vital quality required for today's clients.

enq. 132



Signbox sets the scene



Following its formation in May 2015, Springer Nature – a new educational publishing brand – enlisted the services of Signbox to help create a vibrant new work environment for the company's offices in London. The sign specialist's proposition comprised a host of bespoke signage

and visual communication including wayfinding, directory, statutory, display graphics and glass manifestations across three buildings during a four-stage process. The end result is a range of signage and applied graphics that offers a clean design based around the red, blue and white colour palette of the Springer Nature logo and an engaging campaign theme that focuses on 'curiosity'.

01784 438688 www.signbox.co.uk

enq. 168

Kingspan Insulation strikes gold



Kingspan Insulation has reached another milestone in its journey of continuous improvement after its manufacturing facility in Pembridge, Herefordshire was awarded World Class Operation Management (WCOM) Gold. This latest award reflects the hard work of Kingspan Insulation staff at all levels within

the firm. The WCOM program covers nine different areas including engagement, quality, maintenance, and production; each with its own road map to success. Companies are then given an overall level based on the weighted average of the scores for each area. Most of the work at Kingspan Insulation's Pembridge site has focused on improvements in manufacturing processes.

01544 387 384 www.kingspaninsulation.co.uk

enq. 133

Vent-Axia's electric heating range is shortlisted



Sussex-based Vent-Axia is delighted to have been shortlisted for Marketing Initiative of the Year in the Electrical Industry Awards for its 'Adam & Eve it' campaign. This highly successful initiative doubled heating enquiries in the first two months and in month one, sales went up by over £30,000. An

awareness marketing campaign was developed that played on cockney rhyming slang, with the simple headline being 'Would you Adam & Eve it? Vent-Axia does heating too!' Ideal for residential or commercial applications, whether it is a bedroom or hallway, office or shop, Vent-Axia's electric heating range can provide the solution. Visit www.electricaltimes.co.uk/awards for more on the awards.

0844 856 0590 www.vent-axia.com

enq. 169

Winner of the Microarchitecture Award



Winner: Davide Roth

Launched in April, The RIBA Journal Microarchitecture Award, sponsored by Norbord, culminated in a prizegiving ceremony in Central London where the winner and runners-up were announced. The challenge was to look at the way that Cabanon was created – and emulate it using Norbord's SterlingOSB panel product; to design an external living shelter from a kit of parts mainly made from SterlingOSB. The entries were to demonstrate

SterlingOSB's versatility, strength and sustainability credentials. Davide Roth was announced as the winner. Karl Morris, managing director of Norbord's European Operations, said: "We're excited about the innovative designs that this competition has generated."

enq. 134

Komfort Polar Deflection Head Systems gain SKA Rating V 1.2



Komfort is delighted to announce that it has become the first UK interior partitioning systems manufacturer to hold a SKA Rating Product Compliance Label for its Polar Glazed Partitioning System with Deflection Head, demonstrating Komfort's commitment to leading sustainable design in commercial, education and health environments.

The SKA Rating Product Compliance Label scheme, run by the Royal Institute of Chartered Surveyors (RICS), enables architects and designers, assessors and specifiers to identify and specify manufacturers' pre-accredited materials and products with good environmental performances that meet individual SKA Rating criteria.

Polar Deflection Head Systems are compliant with M08 and/or M09 re-locatability criteria, D20

for its Timber components, D22 and M04 for the insulation Cladding Matt.

Last year, Komfort became one of the first manufacturers with a certified V.1.2 SKA Rating Assessor for Offices among its staff after Product Designer and Environmental Architect, Giuseppa Fiorenza passed the qualification exam, highlighting Komfort's intention to work in parallel with the Rating System evolution.

As an accredited SKA Assessor for Offices, Giuseppa assists Komfort's clients to create more sustainable spaces. During the design process she can identify ways to reduce a project's environmental impact by, for example, advising on Komfort standard products and designing bespoke systems with a low environmental impact and limit landfill waste during manufacture and installation. Once a project has been delivered she can assess

whether the environmental goals specified have been achieved and review how well it is performing under occupancy.

SKA Assessors award projects a bronze, silver or gold rating, as well as a percentage score, and are accredited to provide official certification that clients can feed into their environmental policies and use to demonstrate their green credentials to customers. As the industry moves further towards a more environmentally friendly outlook, it is increasingly important that architects, specifiers and contractors have the choice of SKA approved products for their projects, whilst clients also benefit from the cost savings that come with a more efficient workspace.

01403 390300

www.komfort.com

enq.135

A new website for Alumasc Water Management Solutions



Since its launch in July, Alumasc Water Management Solutions (AWMS) has developed a new website as a central point and focus for its new brand of integrated water management solutions. The website – www.alumascwms.co.uk - includes an overview of AWMS and its sub-brands, linking through to each of the brands' individual sites. It's an interim step in developing a new overall site in 2016. AWMS, the new name in the industry for proven water management, includes Skyline Fascias, Soffit & Copings; Alumasc Rainwater Gutters & Downpipes; Harmer Building Drainage; and Gatic Civil Drainage. These four well known, trusted brands combine to offer one simple solution in rain-to-drain water management. Ben Green, AWMS Marketing Manager comments: "The new site is a fresh approach for our customers, providing them with an overall solution in water management. It's eye-catching and dynamic, and has a quality look and feel, positioning us in the market. A rolling banner on the home page showcases some of our stunning projects. AWMS is the first joined-up rain-to-drain brand in the industry." Ben continues: "Skyline, Alumasc Rainwater, Harmer and Gatic are all big names in their own right, respected for innovation, quality and outstanding support."

0808 100 2008 www.alumascwms.co.uk

enq.136

Bison brings dry-cleaning to concrete manufacturing

One of the UK's leading precast concrete manufacturers, **Bison Manufacturing**, has invested in a new environmentally friendly system to clean its factory machinery. In line with Bison's ongoing efforts to lower its environmental impact, the precast manufacturers required a new system to use in place of its traditional water pressure washers, which can produce large amounts of waste which can be difficult and costly to dispose of. The new system from Karcher, a company known for its pressure washers, uses dry ice pellets to clean concrete residue off machines without the use of any chemicals or spray agents. Starting as solid carbon dioxide, when exposed to room temperature and used with pressure, the pellets transition into a carbon dioxide gas, leaving behind no residues such as abrasives or waste water. Bison's Sales and Commercial Manager, Mike Nelson said: "We have been working hard to find a replacement for our traditional water pressure washer. Although this has not caused any major issues for us in the past, we want to ensure that our factory is working to maximum efficiency whilst also being sensitive to the environment." Bison has also invested in a new unit plotter, a machine used to paint concrete units that are still in the wet stage with details of the products, including the unit's width, length and shape, as well as contract specifics.

01283 817500 www.bison.co.uk



enq.137

Reynaers Aluminium nominated for prestigious G15 Awards

A campaign to encourage the trade to look deeper into design aesthetics, innovation and performance has resulted in an award nomination for Reynaers, the leading provider of high performance aluminium curtain wall, windows and door systems.

Its "Look Deeper" campaign has been recognised for its creativity and effectiveness across a range of different media for the 'Promotional campaign of the year – Trade' at this year's prestigious G15 awards.

The bold adverts communicated the benefits of Reynaers' excellent energy-saving products including unitised facades, curtain wall, aluminium windows, sliding patio doors and bifold doors, targeting the commercial and domestic markets with different messages but using the same style. As part of the campaign, a wide-ranging survey of UK architects and a published White Paper looked at the shifting boundary of architectural inspiration, as it moves to the Middle and Far East, from Abu Dhabi to

Shandong. Reynaers' Trend Analysis – the Eastern aesthetic shift is available online.

A competition for a break to Istanbul was also awarded to give a lucky winner a deeper look at the aesthetics of Eastern architecture.

Leading companies across the glass and glazing industry will be attending the awards Presentation and Gala Dinner on November 27 at the London Hilton on Park Lane.

Head of Marketing Hugh Moss said: "We are absolutely delighted to be finalists for 'Promotional campaign of the year – Trade' at this year's G15 awards.

"This comes at a very exciting time for Reynaers, as we have seen incredible growth this year and are also celebrating our 50th anniversary. It is fantastic to receive recognition for all the efforts of our hard-working team and are incredibly proud that our campaign has been recognised in this way by the judges."

0121 421 1999 www.reynaers.co.uk

enq.138



© Habib Modara Art and Architecture

Growth at Crittall as new MD takes the reins



An executive with more than two decades' experience in the construction products market, and who believes in 'leading from the front' has been appointed Managing Director of Crittall Windows. Stuart Judge (pictured far left) has joined the Witham-based company, the world's oldest continuous manufacturer

of steel windows, from Everest, where he was commercial director. He takes over the helm at Crittall from John Pyatt who has been MD for the past 16 years. Pyatt now becomes company chairman. Judge has been a prominent figure within the construction and industrial products market for the past 21 years having also worked for Mumford & Wood, Blairs Ltd and Saint-Gobain Solaglass.

01376 530 800 www.crittall-windows.co.uk

enq.139

The largest modular build project in the UK



Premier Interlink, a leading Yorkshire based manufacturer and supplier of modular buildings, is pleased to announce that it has been appointed as the preferred bidder for the construction of a modular building complex, comprising of offices and site welfare facilities, required for the proposed

construction of the new EDF Nuclear power generation plant at Hinkley Point C in Somerset. Almost 1,000 steel framed modules will be constructed 'off site' at Premier's state-of-the-art manufacturing facility in East Yorkshire, before being transported to the HPC Site for final assembly and fitting out – a process that will take only 16 months from manufacture to hand over.

0800 3160888 www.waco.co.uk

enq.140

Nationwide Windows opens IGU facility



Leading public sector and new build door and window supplier, Nationwide Windows Ltd recently enjoyed a highly successful event to mark the official opening of its brand new manufacturing facility for the production of Insulated Glass Units (IGUs). The 36,000 square foot facility was officially opened on 23rd September. It allows Nationwide Windows to

further control the production process, in keeping with its existing status as a vertically integrated manufacturer and installer, now additionally incorporating IGU manufacture into the supply chain.

01788 569 228 www.nationwidewindows.co.uk

enq.141

Flowcrete's Floorzone concept



On stand E36 of Scotland Build, taking place at Glasgow's SECC from the 25th-26th November, Flowcrete UK will be demonstrating the potential of its Floorzone concept to combine resin floor finishes with high-performance, sustainably manufactured screeds and efficient underfloor heating systems.

The flooring specification process can be a tricky task, especially for complex developments such as hospitals, schools, high-rise buildings and transport hubs, of which there are a considerable number on the horizon. The Floorzone concept has been created to simplify this process, as every element of the floor build up, from the substrate to the finish, can be sourced from one expert supplier.

01270 753 000 www.flowcrete.co.uk

enq.142

KYDEX® sheet – helping to build a better healthcare future

When it comes to building a better healthcare future, James Latham's latest surface solution, KYDEX® Sheet, is the long-term partner you can trust.

The Company is now offering this high performance, exceptionally durable thermoplastic sheet that also promises to significantly enhance any healthcare environment or styling theme.

Supplied in a wide range of colours, textures and patterns, KYDEX® Sheet offers designers the ability to create an almost unlimited variety of flat and three-dimensional effects which can be achieved through techniques including thermoforming, membrane pressing, post forming, brake forming, laminating and machining. This allows different parts to be produced using the most efficient technique yet still match in appearance.

KYDEX® Sheet can be formed to compound corners and contoured edges, minimising the need



for moulding and edge banding and enabling large area installations to have the appearance of one seamless, single application. Even brand logos and messages can be embossed into the material.

With exceptional impact, chemical and scratch resistance, KYDEX® Sheet will not chip, crack, break, or snap, making it the perfect surface

solution for demanding, high traffic or high impact applications. Plus, Kydex® Sheet has antimicrobial properties that help in the fight against infectious outbreaks and the spread of contagious conditions.

Andrew Wright, director of James Latham commented, "The potential applications for KYDEX® are just so vast and it is already being used extensively in hospitals plus it's had a big impact with our customers in other sectors too such as the shop fitting, education and exhibition sectors."

KYDEX® sheet is available in over 3,500 colours, including granite, metallic and wood grain patterns as well as multiple surface textures and thicknesses from 0.71mm to 12mm. And if none of these choices meet your needs, then a unique, custom colour can be manufactured just for you.

0113 387 0850

www.advancedtechnicalpanels.co.uk

enq.143

Altro brings colour, design flair and enhanced protection to pioneering London trust



A range of Altro flooring and wall cladding is being used at Whittington Health in north London, to help create a more relaxing, visually appealing space in two new facilities, and provide enhanced protection in the Emergency Department (ED). Eighteen months ago, the Trust opened two new facilities: a pioneering £3 million Ambulatory Care Centre and a Rapid Assessment Unit, which is helping to improve triage for the ED. Both of these new projects feature Altro safety flooring and hygienic wall cladding, which was used to create a contemporary, colourful and more relaxing space for patients, while also providing the highest levels of safety, hygiene and reliability. Architect Levitt Bernstein was tasked with designing the new facilities. Project architect Ben Monteagle explains Whittington Health's vision for these new spaces, and how he brought it to life with a striking, yet practical solution. "The aim for the Ambulatory Care Centre was to create a space that didn't look clinical or institutional," says Ben. "The Trust wanted patient wellbeing to be a key factor, using a design that flowed, that was relaxing, colourful, visually appealing, full of light and with large open spaces where patients could relax and feel at home. In essence, a contemporary area that didn't look like a hospital."

01462 489516 www.altro.co.uk

enq.144

Armstrong PCM Ceilings help health unit



Ceiling systems from Armstrong were specified for a new Pre-Operative Assessment Department and Surgical Admissions Suite at Bristol Royal Infirmary for their sustainability credentials. Armstrong's CoolZone passive energy-saving tiles were used alongside the manufacturer's Ultima+ range, which is the world's first

complete ceiling range to win Cradle to Cradle certification, with a Tegner edge detail on a 24mm suspension grid throughout the £2 million replacement Surgical Admissions Suite (SAS) and Pre-Operative Assessment Department (POD). Some 300m² of the metal CoolZone tiles incorporating Phase Change Material (PCM) which absorbs heat during the day and releases it at night feature.

0800 371849 www.armstrong-ceilings.co.uk

enq.145

Polyflor brings slip resistance to ward



Polysafe safety flooring from UK vinyl flooring manufacturer Polyflor was recently installed throughout Ward 29, a new £2.5 million dementia friendly facility developed at Manor Hospital in Walsall, West Midlands. Polyflor flooring was used throughout Manor Hospital's new 30 bed dementia

friendly facility. Polysafe Wood fx PUR, Hydro and Vogue Ultra PUR safety flooring was used throughout the ward to help keep patients, staff and visitors safe and reduce the risk of slips and falls. All Polysafe flooring ranges feature safety particles for increased traction underfoot, providing sustainable wet slip resistance throughout the guaranteed lifetime of the product.

0161 767 1111 www.polyflor.com

enq.146

Contour makes the difference



Contour has provided safe surface temperature solutions for an NHS mental health recovery unit in Kingsley Green, Hertfordshire. The project's mechanical and electrical engineering works were subcontracted by consultants The Barn Partnership.

It specified Contour for the specialist manufacture of LST radiator systems. Contour quickly developed a solution meeting the rigorous specification. It supplied Trionic DeepClean LST Anti Ligature radiators, with guards manufactured from 1.5mm mild steel, to provide a safe, secure and durable low surface temperature solution. In total Contour supplied 96 Trionic DeepClean LST radiator systems.

01952 290 498 www.contourcasings.co.uk

enq.147

Metal Technology products for hospital



A wide range of Metal Technology products have been used in a state-of-the-art teaching and learning centre for medicine at Glasgow's Southern General Hospital. Metal Technology's System 8 low rise and System 17 high rise curtain walling have both been used in the scheme,

with System 4-35 Hi Thermally Enhanced Casement Windows and System 5-20DHi+ Thermally Enhanced Doors completing this high performance glazing package. System 8 low rise curtain walling is considered an optimum solution for expansive low rise glazed applications, while System 17 high rise offers limitless flexibility in design applications.

028 9448 7777 www.metaltechnology.com

enq.149

The perfect shower space for life



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take the weight of a wheelchair and the company offers numerous accessories to create a comfortable wet room for those with reduced mobility. A wet room can be practical, luxurious, minimal, functional – whatever design you choose, your wet room will provide a safe and flexible shower space to be enjoyed for life.

020 3199 8496 www.onthelevel.co.uk

enq.148

Building equality in hygiene



Educational organisations could be at risk of breaking the law if they do not include a specific type of accessible toilet in new build or refurbishment projects, warns Clos-o-Mat, leading provider of 'out of home' toilet facilities. To help providers get it right, Clos-o-Mat has developed the most comprehensive

and unique 'one-stop shop' solution. In-house, the company can provide design advice, then supply all the equipment, if necessary install and commission it, and subsequently service & maintain it. Full project management can also be provided. This is reinforced with support services including CAD drawings, and education sector specific advisory white papers, available for free on its website.

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

enq.150

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enq.151

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enq.152



US ideas reflects on new Papworth Hospital

Anish Kapoor provides an inspiration for HOK's new Papworth Hospital, as Steve Menary reports

Anish Kapoor's Cloud Gate is a highly polished bean-shaped sculpture at the centre of AT&T Plaza at Millennium Park in Chicago. The sculpture by the Indian-born British artist was an unlikely inspiration for HOK when the London office of the US architectural practice came up with exterior design ideas for a long-running new hospital.

Papworth Hospital has long had a reputation as one of the country's top specialist heart and lung hospitals and HOK first became involved in plans to redevelop the site back in 2010, when consortia were invited to bid.

HOK teamed up with the UK arm of Swedish giant Skanska. The practice has a track record on major healthcare projects such as the Royal National Orthopaedic Hospital and the redevelopment of the home of Barts & The London NHS Trust, which was also built by Skanska.

The project was procured as a Public Private Partnership (PPP) deal and as competition hotted up, just two consortia were left in the running: the HOK/Skanska grouping and a team comprising the UK arm of French titan Bouygues and Nightingale (now known as IBI).

In June 2014, HOK's holistic design for Skanska won the
Continued overleaf...



day. “The trust told us that we won the project on our clinical design,” says Allison Wagner, an HOK vice president and healthcare regional leader

Ms Wagner continues: “Our main brief was to provide a state-of-the-art hospital for the 21st Century, where they can practice medicine that is in line with the top hospitals in the world. Technically, they are a top hospital, but they didn’t have the facilities.”

The original cardiothoracic unit is situated in a bucolic site that is a 30-minute drive from where the new Papworth Hospital is being developed on the existing Cambridge Biomedical Campus.

Across the road from the new 310-bed Papworth Hospital – and connected via an underground tunnel – will be Addenbrooke’s Hospital. The proximity of the two buildings was key to the relocation.

Continued on page 35...

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enq.154

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Stephen Herbert, also an HOK VP and senior project architect on Papworth, explains: “A lot of their patients are ill with multiple problems but because the heart is the main engine they are there. They are constantly transferring patients to Addenbrooke’s and that’s where the idea came from to have the two next door to each other.” Shifting sites will also have other benefits.

Ms Wagner explains: “Moving to Cambridge will help them get the top physicians in the country. Then they will be able to get the research dollars.”

The new Papworth Hospital will be a six-storey building as part of a holistic design concept that aims to reflect the park-like setting of the original unit.

Features of the new design are the extensive gardens, a pond and meeting places for patients, family and staff in the main atrium, gardens and restaurant to enhance communication and collaboration across the campus.

“We want to replicate the nature and feeling of the old Papworth but to bring it into the 21st Century,” says Mr Herbert. “The planners didn’t want to lose the green element of the site.”

Due to the nature of the hospital’s specialism, many patients

are very acute and this had serious implications for HOK’s design with each of the rooms including external windows and internal full glass double doors known as breakaway doors. The treatment rooms are also in a circular area to make circulation easier.

The insistence on external windows on every coronary care unit (CCU) room is part of HOK’s ethos to combat sundown syndrome, which typically affects patients with cognitive disorders such as dementia and strikes around sundown. In rooms with no exterior windows, patients cannot determine the time of day.

Ms Warner explains: “They don’t know if it’s night or day. One thing we will not do is design a CCU unit without natural daylight.”

HOK’s overall layout of the new hospital supports the Trust’s care model of creating what are described as ‘discrete zones’ for ambulatory or outpatient care, emergency services, and diagnostic and treatment functions.

Each inpatient floor has two nursing units in an innovative double corridor design that results in a compact, accessible layout. This is aimed at reducing travel distances and direct sightlines to all patients from the nurses’ stations.

Continued overleaf...

'We want to replicate the nature and feeling of the old Papworth but to bring it into the twenty first century'

Stephen Herbert: HOK VP and project architect



Mr Herbert adds: "The vision that the trust had was that the patients are always visible to staff. There are four multi-bed wards but its predominantly single rooms.

"Infection control is important. What is driving it is the ability for staff to monitor patients because if they go into cardiac arrest, they need to be treated immediately."

Each of the rooms are also the same to help circulation, flexibility and ease of treatment. "If all the rooms are different, that is where you get medical error," says Ms Wagner.

Fire safety was an important design issue for the client, as was the need for high quality air-conditioning. This could not be placed on the roof as is often common. Instead, at Papworth the air conditioning units are on the second floor beneath four more storeys.

Mr Herbert explains: "They have very high air change requirements. All that equipment could not go on the roof, as all the other floors would change to the ducts. That's why we needed it close to the first floor."

The first floor is the main treatment area, while the third to fifth floors are all inpatient acute care wards.

Mr Herbert explains: "What we brought to the table was flexibility for the outpatient. Like the inpatients, we made it all the same. A lot of old hospitals have a very departmental layout.

"The key driver has been to make it a simple building. There are two entrances when you arrive and only two places to go when you get inside."

On completion, the seven-storey building will measure 33,000 square foot and include seven operating theatres and five catheterisation labs.

The structural design uses high-performance engineering systems and strategic placement of flexible support spaces that means the hospital can accommodate future growth of up to 118,000 square feet.

To support this longer-term flexibility and maximise energy efficiency, building information modelling (BIM) is being used.

Sustainability is at the heart of the design with carbon emissions reduced through the specification of a large-scale ground-source heat pump system.



project bytes

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Ref: 48084

The proposals for the hospital also include a green travel plan for site to reduce reliance on car travel and encourage the use of public transport. As part of this element, secure cycle racks, changing facilities and showers will be provided for hospital employees.

The building is designed to achieve an EPC 'B' energy rating. If this is successful, Papworth will be the first hospital in the UK to achieve this measure.

Externally, HOK has specified curtain walling and this is where the influence of Cloud Gate comes in.

Ms Wagner takes up the story: "The medical director here Steve Tsui is very excited about the design. He's also very taken with Anish Kapoor's Bean in Chicago. He wanted the exterior to reflect the change in elements and the change in healthcare."

With the client's wishes upper-most in their mind, HOK has created an external design that will do just that once construction is complete.

Richard Spencer, Skanska's project director on Papworth Hospital, says: "The stunning architecture of the new hospital will showcase a confident civic presence that will help to

attract the very best staff and clinicians, and will make Papworth a treatment centre of choice, both within the UK and internationally."

The construction contract is valued at around £140 million but the overall PPP deal includes design, build, finance and hard and soft facilities management.

Skanska has a 50 per cent stake in the equity investment of the project with Equitix committed to providing the remaining 50 per cent. On completion, Skanska will also provide hard facilities management services at the hospital for the next 30 years.

Work is scheduled for completion in December 2017 but the Bean-inspiration is not the only extra touch that HOK have brought. The practice is recruiting artists to produce art-work for the exterior, such as Adam Ball. A graphic artist is also being selected to help with the signage, while there will also be a resident artist on campus.

Papworth Hospital might not be Cloud Gate, but it should still reflect a step change in medical design.

Project details

Project: Papworth
 Hospital

Location: Cambridge

Construction value:
 £140 million

Client: Papworth
 Hospital NHS

Foundation Trust

**Client's architectural
 advisor:** Devereux

Architect: HOK

Services engineer:
 Troup Bywater &
 Anders

**Civil & structural
 consultant:** Skanskatec

Landscape architect:
 Fira

Main contractor:
 Skanska UK



Yeoman Shield launch new handrail products

Already the manufacturer, supplier and installer of a comprehensive range of wall & door protection products, Yeoman Shield have expanded their range of Guardian Handrails.

Incorporating the original and improved Guardian Handrail this new group of rails will also include the Guardian 50mm dia. Handrail, available in either a PVCu, Stainless Steel or Timber option and the Guardian Twin Handrail

which has both an upper support rail coupled to a lower protection rail in one complete system.

“We are aware that our standard wall and door protection packages very often go hand in hand with the requirement of a handrail system.”

“We want to be able to simplify things for our clients when specifying and procuring this group of materials and be in a position to offer them a complete and comprehensive package. It was for this reason that we have developed the New

Guardian Handrails to complement our core market of wall and door protection products.” Commented Yeoman Shield’s Sales Director, Stuart Russell.

Suitable for Healthcare, Education, Leisure and Industrial environments Guardian Handrails will be available from November.

0113 279 5854

www.yeomanshield.com/new-handrails

enq.156



Lyndon Design helps College of Psychiatrists

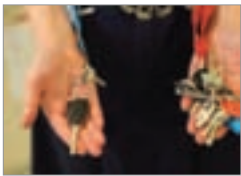


Lyndon Design has played a key role in helping renovate the Grade II listed headquarters of The Royal College of Psychiatrists located in central London. Specified by London-based Sketch Studios Ltd, the contemporary and stylish member's lounge of the College, that takes in meeting rooms,

workstations, a council room and the College's heritage of fine art, now plays host to several of Lyndon Design's best-selling furniture products. These include the Orten and Callisto seating collections, together with the Metro occasional table. Skilfully tailored to meet with the College's 50,000 sq ft ergonomic and spatial requirements, the chosen furniture exemplifies why Lyndon Design continues to be the favourite of architects and specifiers worldwide.

enq.157

Abloy locking solutions at Patient First



Security expert Abloy UK is showcasing its range of security solutions at Patient First 2015, with representatives on hand at stand H05 to discuss the systems that make it one of the leading manufacturers of keyless locking integration for the healthcare sector. Abloy will be promoting web-based security management solution,

PROTEC2 CLIQ, which allows for the remote management of disparate or large electronic master-keyed sites at any time, from anywhere in the world. The system is gaining popularity, having undergone trials at Scunthorpe Hospital and Queen Elizabeth Hospital Birmingham. Abloy will also be presenting its OPTIMA system, which is the ideal solution for patient lockers.

enq.158

Air Vent Technology



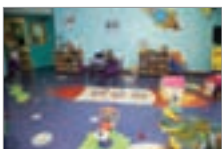
One of Air Vent Technology's extensive ranges of heat recovery units, from Vectaire, is to be installed at the new Medical Centre in Biggleswade. The unit chosen is one of AVT's bespoke heat recovery units for internal installation. The STPO2-HR will ensure that the medical centre is properly and economically ventilated, while ensuring that there is minimum heat loss during the winter. These units are available with

either an EHB or LPHW heater battery, and are only one of an extensive range of ventilation products (air-handling- heat recovery- energy efficient with EC motors- cabinet and twin fans and emergency smoke extract units).

01494 522333 www.vectaire.co.uk

enq.159

Polyflor spaceship design installed at hospital

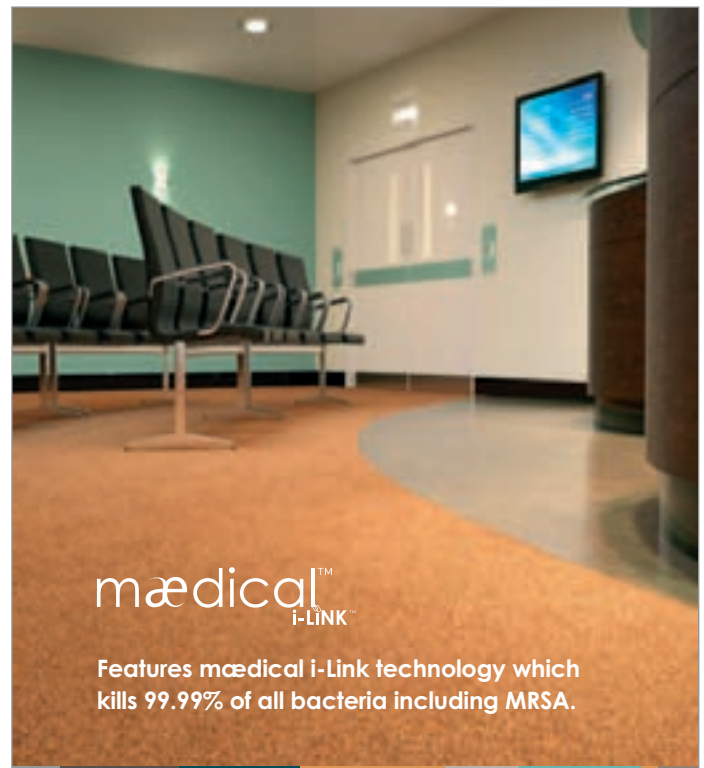


An "out of this world" flooring design using Polyflor's vinyl flooring helped bring an extra dose of fun to a play room at the Nightingale children's ward at Chesterfield Royal Hospital recently. Polyflor's in house Design Service created this bespoke floor design for the children's ward,

featuring a colourful rocket ship, planets and stars. The design elements of the floor were manufactured by Polyflor then cut into the sheet flooring on site County Contract Flooring. Polyflor's Pearlazzo PUR vinyl sheet flooring in Purple Crush 9722 was used as the backdrop to the play area's space themed designs which were a mixture of colours.

0161 767 1111 www.polyflor.com

enq.160



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enq.161

New Ronald McDonald house roof



For Ronald McDonald House Charities' (RMHC) new-build facility at South Glasgow Hospital Campus, Sika-Trocal has supplied 600m² of its single ply membranes as part of a high performance waterproofing system that includes a living roof and a series of projecting window pods.

McConnell Roofing was appointed to complete the single ply elements of a roofing contract. For the main roof area, McConnell Roofing applied 500m² of Sika-Trocal SGmA as part of a complete green roof system comprising vapour control layer, PIR insulation, Sika-Trocal SGmA waterproof covering, Sika-Trocal SBv protection and separation layer, drainage layer and vegetation.

01707 394444 www.sikatrocal.co.uk

enq.162

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Gerflor SPM offers a comprehensive range of wall and door protection, corner protectors and handrails in an extensive range of finishes. SPM International has been integrated into the Gerflor brand, offering customers a suite of reliable and decorative systems providing safety, hygiene, easy

maintenance and noise management. The breadth of the SPM range is both vast and specific and provides protection for all education applications, together with industrial facilities which also includes clean rooms/controlled environments and the pharmaceutical sector. The SPM product range also offers the highest levels of protection for high traffic areas in a host of health care facilities.

01926 622600 www.gerflor.co.uk

enq.163

Trust chooses Yorkon off-site solution



Frimley Park Hospital chose a Yorkon off-site building solution from the Portakabin Group for a 34-bed emergency care ward to help address the increased pressure on health services particularly during peak periods. The two-storey ward building which provides beds for critical and elderly care was

handed over after just four months on site. The use of off-site construction ensured any disruption to the hospital was kept to an absolute minimum and radically reduced the programme time to allow earlier occupation. The pre-installed Yorkon concrete floor system was specified throughout the building for a robust and high performance finish. The Portakabin Group has an extensive track record in the healthcare sector.

enq.164

nora – Research and Education Building



nora systems has provided 2,700 sq m of its noraplan® sentica and noraplan ultra grip floor coverings and accessories, including skirting and adhesive, to the new Bob Champion Research and Education Building in Norwich. To meet the client's brief, Architects Hawkins Brown required a hard wearing, durable floor which would provide

comfort underfoot and ease of maintenance. nora products ticked all these boxes. The very dense surfaces of nora floorings require no coatings and are therefore exceptionally durable and wear resistant; this makes them extremely robust and resistant to laboratory chemicals and other damaging effects.

01788 513 160 www.nora.com/uk

enq.165

Estate rejuvenation with Kingspan Insulation



The Ferry Lane Estate in Tottenham has been given a fresh start thanks to a multi-million pound regeneration scheme, which includes the installation of 39,000m² of Kingspan Insulation's premium performance Kooltherm K5 External Wall Board. With thermal conductivities as low as 0.020 W/m.K, the

product allowed the best possible thermal performance to be achieved within the limited space available in a cost-effective manner. Scaffolding was constructed around the properties and the old asbestos cladding was carefully removed. Kooltherm K5 External Wall Board was then mechanically fixed into place and new slate effect tiles were installed on timber battens.

01544 387 384 www.kingspaninsulation.co.uk

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www.architectsdatafile.co.uk

All's well in Sandwell – thanks to Trespa



High quality and low waste were key factors in the use of Trespa® exterior cladding panels for a West Midlands high-rise refurbishment scheme. Charlemont Farm Estate in West Bromwich was constructed in the early 1960s as a mix of low- and high-rise dwellings. Four nine-storey blocks, of concrete frame structure with facing brickwork and blockwork cavity wall infill panels were built in 1961. Sandwell Council's Urban Design and Building Services department was tasked with producing refurbishment proposals that would provide at least another 30 years' life span for the blocks. The specification had to include full use of recycled and sustainable materials. With the work on the blocks now complete the most noticeable transformation is in the external appearance, thanks to the use of Trespa® Meteon® Wood Decors exterior wood tone cladding. Trespa® Meteon® panels perform exceptionally well outdoors with neither sun nor rain having any significant effect on the surface. The high-pressure compact laminate with an integral surface is manufactured using Trespa's unique in-house technologies that utilise dry-forming and electron beam curing. A mix of Trespa® Meteon® panels covering 2,300 square metres was used on each block in addition to 900 square metres of Slate Wood. All panels were 8mm thick FR Grade.

0808 2340268 www.trespa.co.uk

enq.167



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Recycling space and structures to create new homes

Jess Unwin learns how clever and flexible design is helping to create much-needed modern rented apartments that integrate with existing communities

Canny architectural design should be able to help meet both the UK's desperate need for more affordable homes *and* ease the qualms of those with reservations about change in their neighbourhood.

Those are the goals architects are committed to achieving on a £5.25 million project to build 34 one- and two-bed flats for rent at a site owned by Riversmead Housing Association (part of Network Housing Group) on the eastern boundary of east Hertfordshire town Ware.

Architectural, property and construction consultancy Pellings was originally set the task of looking at the housing association's numerous properties for possible redevelopment. Against a backdrop of lengthening waiting lists for houses and flats to rent, Riversmead wants to build 500 more affordable

homes for local people in Hertfordshire and the surrounding Home Counties.

With the price of land at a premium, it and other such organisations are re-examining their existing housing stock that was built in the '50s, '60s and '70s. Many are concluding that associated garage blocks, many of which are no longer being used for cars, are not the optimal use of land in the 21st century.

One Riversmead site that was identified was a block of 27 garages in Cozens Road in Ware, but it was soon recognised that there could be an opportunity to expand the development. Neal Penfold, urban designer with Pellings, explains: "With a typical garage site you'd achieve maybe 4-6 homes, and this site would have been the same."

Continued overleaf...

'The internal designs also need to be lifetime homes-compliant'

**BUILDING
PROJECTS**

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© Philip Durrant

Riversmead Housing Association has already completed the building of new homes (pictured this page and next page) in other parts of Ware. They feature designs and materials that will be put to use in the Cozens Road development

He continues: “Next to the garages were 12 maisonettes – three blocks each containing 4 homes – with very big back gardens. We put it to Riversmead that we would have the opportunity to create a more substantial development by incorporating those properties into the site.”

Riversmead agreed with the new idea, which would involve buying out leaseholders and rehousing tenants at the existing maisonettes. However, while the housing association’s wider building programme elsewhere in the town got under way, the Cozens Road proposals proved more difficult to realise.

Consultation with planners and local residents continued after concerns were raised about the number of proposed flats, extra vehicles entering and exiting the site and visual impact on the street as a whole. The plans were adapted to accommodate one road onto the site instead of two and to resolve access issues for residents neighbouring the development. Neal says: “We’ve also adjusted the number of parking spaces as we’ve progressed with the proposals. We started with a one-to-one ratio (one space for each flat) but through consultation with planners and residents that provision has steadily increased to address concerns about street parking. The final total is 52 parking spaces.”

Criticism over visual impact centred on one section of the development: the two flat-roofed and three-storey blocks of flats, known as blocks A and B, which front onto Cozens Road. Neal says: “The planning authority felt that our three-storey plans for blocks A and B would be overly dominant in the street scene so we moved to a design where the top storey was recessed, reducing the mass and impact of building on street scene. This means the top floor is set back between 2–4 metres from the front and sides of the building, producing an inset floor.”

The willingness to accommodate all these design changes reduced the original proposed number of flats from 38 to 34, with blocks A and B providing 13 flats each, and blocks C and D – which are two-storey and feature pitched roofs – providing four flats each at the rear of the development.

Riversmead’s proposals were approved on appeal earlier this year. The planning inspector’s appeal decision noted that affordable flats were acknowledged by the local council as being of the “highest level of need in Ware”. It continues: “...residents, along with the council, have raised concerns relating to the flat roof design for block A and B and I acknowledge they would introduce a new design feature not

found elsewhere along Cozens Road. However, I consider that due to the third-storey set-back it would be a relatively muted feature in the context of the two lower projecting storeys. At street level, these front elevations, rather than the flat roof elements, would be the focal point and principal attracting features in drawing the eye..”

Construction work in Cozens Road should now get under way this autumn. Ahead of that, Neal says: “Our brief was to provide modern homes and not be too constrained by any architectural influences close by. However, we’ve obviously referenced materials so, for example, we’re using traditional brickwork, but we are using the materials in a modern way. We talked about this with planners and the principle of adopting a modern approach was what was agreed.” He adds: “The building’s street facades are broken up into distinct sections so they’re residential in appearance and scale and the contrasting materials, yellow and grey brick and also the lightweight metallic panels for the recessed floor, create a depth and interest in the street scene.”

It’s an approach praised in the planning inspector’s appeal decision. It says that with “...use of yellow brick, glazing and grey panels to punctuate the principal frontages...the proposed development would add to local distinctiveness and complement the character and appearance of the area”.

Structurally, the four new buildings will feature load-bearing masonry, precast concrete floors and trussed rafters. Photovoltaic solar panels and green sedum roofs are planned for blocks A and B. To meet environment and sustainability building regulations, the development will follow a ‘fabric first’ approach: energy efficiency through how the flats are constructed rather than bolting on extra features. It’s planned that the homes will also have mechanically ventilated heat recovery, which recycles heat within the residence. Conditions for the approval of the development also include sustainable surface water drainage and an inspection to check if bats use the site for roosting.

Neal is pleased with the landscaping plans for the development: “We’re introducing significant tree-planting and as much green as possible throughout. We’ve certainly made a big improvement to the space in front of blocks A and B in terms of public realm. There will be an attractive planted area in front of these blocks that’s not dominated by cars.

“Each flat has its own balcony or dedicated private terrace for the ground-floor units. We’ve introduced planting as a buffer between the terraces and parking and pathways.”

Inside, the flats will be compliant with guidelines set out by the Homes & Communities Agency, the UK government’s housing, land and regeneration agency, which is also the regulator of social housing providers in England.

Neal explains that the internal designs also need to be lifetime homes-compliant – a set of design criteria intended to make homes more easily adaptable over time. “It’s future-proofing them. For example, providing the drainage for a wet room in bathrooms instead of bath.” He continues: “While these homes won’t be set up for people with disabilities, the aim is to make them flexible enough for design

Continued overleaf...



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‘To meet environment and sustainability building regulations, the development will follow a ‘fabric first’ approach’

‘We’re introducing significant tree-planting and as much green as possible throughout’

Neal Penfold, urban designer for Pellings





© Pellings

changes to accommodate changing needs because of age or health.”

When the flats are completed, Riversmead, which is a not-for-profit organisation that owns and manages over 4,300 homes across Hertfordshire, Bedfordshire and Buckinghamshire, will work with the local council and the Housing Needs Register to find tenants.

Paul Huckstep, Riversmead’s executive director, says: “With the huge demand for affordable rented property, we needed to look creatively at providing local solutions. The Cozens Road development is a great example of us working well with architects and development partners to consider the local landscape and people’s need for good quality affordable homes. We’re passionate about providing the homes that people really want in this part of the South East.”

Neal says the Cozens Road project is one he’s enjoyed

working on: “The garage sites in general are quite challenging design-wise. They’re often leftover spaces that weren’t originally intended to have houses on them so from that point of view it is interesting to find ways to make them work.”

“In many cases these garage sites are just not being used for the purpose they were designed for. A lot is said about the extent of displaced cars that will be parked on the street but the reality is that 80 per cent of these garages blocks don’t have cars in – they’re too small for modern cars and are just used as storage areas.”

“What we’re doing is recycling space and structures and getting much better use out of them. I feel this is effective use of brownfield land, creating much-needed new homes. It’s an understandable and common strategy among housing associations because land values are so high. This represents much better use of their existing resources.”

Project Details

Architects:

Pellings LLP
(to planning consent)
Aros (post-planning consent)

Main contractor:

Bugler Developments Ltd

Structural Engineers:

M Pegram & Associates



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CMS show BIM-ready solutions at B&EE Expo



Curtain walling installed at Queen Elizabeth University Hospital in Glasgow

The substantial efficiencies and added value that developers and architects will gain by working with a BIM-ready window, door and facade contractor, will be revealed by CMS Window Systems at this year's Buildings & Energy Efficiency Expo. Already established as one of the UK's leading window, door and curtain walling fabricators and installers, CMS Window Systems recently expanded its portfolio of building envelope solutions with the addition of external wall insulation (EWI) and cladding systems installation. In addition to BIM, CMS will also be highlighting how its range of PVCu, aluminium and timber aluminium composite windows and doors.

01324 841 398 www.cmswindows.com

enq.171

greenbuild expo stand no C16

EnviroVent extends heat recovery range



To meet growing demand for whole house heat recovery systems, EnviroVent, one of the UK's leading manufacturers of ventilation systems, has launched two new additions to its renowned energiSava range. The energiSava 300 and 400 are high efficiency whole house heat recovery systems that are ideal for new homes, providing a constant supply of clean air and reducing humidity levels, therefore preventing condensation and associated issues. With maximum airflow capacities of 300 and 400 m³/h, these units feature a summer bypass facility, which contributes to an improved comfort level in summer. This is controlled automatically by measuring indoor and outdoor temperatures.

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Greenbuild Expo returns

Greenbuild Expo returns to Manchester Central in November (10-11) – running alongside a new event – Buildings & Energy Efficiency (BEE), which has been launched to offer built environment professionals access to all the latest products and solutions to create buildings for the future



As well as access to guidance on energy efficiency, green retrofit and much more, both events will feature free conference programmes with expert speakers offering inspiring content on everything from renewable energy to off-site construction. Greenbuild Expo and BEE are designed to give visitors the tools they need to produce innovative, low-energy buildings and truly green developments.

Of the commercial properties in the UK that have had an Energy Performance Certificate (EPC) so far, over 90,000 of them do not conform to Minimum Energy Performance Standards (MEPS), which is likely to be an E rating or above, meaning BEE will have enormous appeal as those responsible

for commercial buildings seek to take control of their energy consumption.

Event manager Chris Eldridge said: “After six successful years as Greenbuild Expo it was clear that there is a real need for information on making commercial buildings more energy efficient so it’s a natural progression to launch an event dedicated to energy efficiency, particularly with the changes in legislation to Part L 2014, The EU’s Energy Performance of Buildings Directive, The Energy Savings Opportunity Scheme (ESOS) and The Energy Act 2011, which over the next three years will have a major impact on the way commercial buildings are managed and let.

“We moved the show to November to avoid the election and also give time for the built environment and industry to have a clearer picture of what the implications of any policy changes are and what lies ahead. It’s also ideal as we move into winter and need to use more heating and lighting, so energy efficiency will be in the forefront of visitors’ minds.”

The two events together will offer visitors fantastic opportunity to discover the latest innovation when it comes to energy efficiency and renewable energy, as well as opportunities to see the latest sustainable products and materials, hearing from those who have put these technologies through their paces.

Speakers already confirmed for the events include Balfour Beatty, The Energy Institute, Zero Carbon Hub, Energy

Continued overleaf...

Look out for...

Kedel Limited (stand E17) has won the ‘Best Recycled Product’ category at the



National Recycling Awards 2015. Its award winning plastic wood is maintenance free, extremely versatile and the ideal replacement for wood. The current range includes cladding, decking, tongue and groove and many other profiles specifically designed for the building and construction industry.

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Wetherby Building Systems Ltd (stand E22) specialises in the manufacture and distribution of a wide range of insulated render systems, polymer cement renders, silicone & acrylic thin coat renders, brick slip systems and Internal Wall Insulation. Wetherby’s external insulated render systems offer environmentally sympathetic external facade solutions that can transform properties.



enq.280

Spantherm from **Creagh Concrete** (stand E16) is a pre-insulated



precast concrete flooring system designed specifically for residential and mid sized commercial ground floors. The composite slab combines structural concrete and high performance Expanded Polystyrene (EPS) insulation to provide a superior thermal floor.

enq.281



Institute, British Institute of Facilities Managers (BIFM), National Energy Foundation (NEF), BRE, University of Salford, Association of Public Sector Excellence – Energy (APSE – Energy), BSRIA, Schneider Electric and the BRE.

Topics covered will include:

- Legislation affecting commercial building performance MEES/MEPS
- Upgrading existing properties to improve energy efficiency and reduce bills
- Building services solutions – lighting, heating, BMS
- Funding for renewables and energy-efficiency measures
- ESOS legislation – are you ready?

- Energy monitoring and control
- Behavioural change – have you tackled some of the most low-cost solutions yet?
- Specifying sustainable materials
- The road to zero carbon
- BIM
- Training
- Building Regs updates
- Refurbishment solutions
- Passivhaus

A popular feature returning to Greenbuild Expo for 2015 is Ignition, the UK's only woodfuel event. With a dedicated seminar programme and exhibition area, Ignition15 will include advice on incorporating biomass into sustainable developments.

Greenbuild Expo and Buildings & Energy Efficiency take place on 10th and 11th November at Manchester Central.

To find out more and for free registration please visit www.greenbuildexpo.co.uk and www.beeexpo.co.uk and follow @greenbuildexpo and @b_eonline on Twitter



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ERP compliant small circulators from Wilo



Wilo has recently announced it is celebrating the sale of 28 million small circulators in the past ten years. Wilo's high efficiency small pumps – in particular the Wilo-Yonos PICO – have made a huge impact in the UK heating and air conditioning sector over the past two and a half years, since the arrival of the ErP legislation. Take a closer look at the Wilo small circulators at www.wilo.co.uk – saving energy, reducing bills and

reducing emissions – they offer a win, win, win solution! See the company at Greenbuild along with a range of energy efficient products.

01283 523000 www.wilo.co.uk

enq.175

greenbuild expo stand no B30

Stokvis Innovations at The Green Build Expo



Stokvis Energy Systems will introduce a range of new heating products and systems on Stand A14 at The Green Build Expo, Manchester Central, 10-11 November 2015. Made in the UK, the latest Econoplate "H" Series interface unit is ideal for district heating schemes. This innovative unit allows simpler, effective and flexible integration of low to zero carbon technology at the central plantroom, increasing overall

energy efficiency. Also to be featured at the show, the Stokvis Econoplate which is now available in over 250 models for a range of applications including domestic hot water service, low temperature hot water heating, steam-to-water, swimming pool heating and even complex process heating.

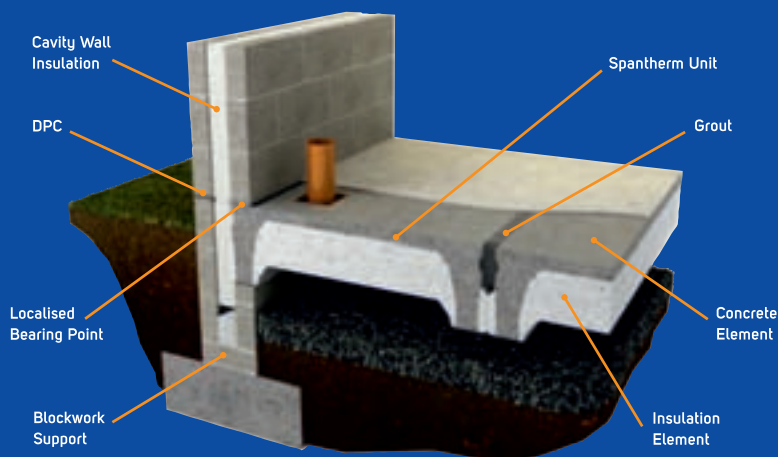
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greenbuild expo stand no A14



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greenbuild expo stand no E16

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Treating damp and water ingress in historic and listed buildings

The fundamental challenge when dealing with buildings of special architectural or historic interest is to maintain structural and aesthetic integrity, while remaining sympathetic in the product application and still achieving the desired effect. Toby Champion of Newton Waterproofing Systems reports

Meeting stringent listed building requirements

When treating damp in historic and listed buildings, it is important that the products used meet with the stringent Listed Building Requirements. Many damp proofing products require surface preparation techniques that are unacceptable due to the detrimental effect on the structure, which in most cases is irreversible.

However, some products, such as damp proofing membranes, can still be sympathetically applied with little or no preparation, requiring only the very minimum of strategically placed fixings to be held in place. Once installed, the membrane achieves its design function by providing an impervious barrier between the damp surface and the new internal wall. Moisture and moisture vapour are prevented from affecting internal finishes, and, when supplemented by drainage, this becomes one of the most effective forms of waterproofing.

Problems with chemical damp proof courses

The walls of many historical buildings are constructed with an irregular mix of materials that could not be expected to accept or sustain contemporary injected chemical damp proof courses (DPC's). Due to the wall thickness and the sparse population of physical mass, modern, injectable chemical DPC's do not achieve an even distribution throughout the substrate.

Even when well installed, a chemical DPC should only be seen as a damp inhibitor and not as a final solution to rising damp, and as a result of the difficulties of installing such products, many historic buildings are resigned to the idea that their walls will be damp to a degree.

Damp proofing walls above ground – rising damp

However, if completely dry and untainted internal wall finishes are required, there are still some products that are ideal for providing a barrier between the damp construction and internal finish. The air gap created by the studs of cusped damp proof membranes, for example, provides an equilibrium of moisture-laden air, which maintains the natural state of the structure, helping to prolong its longevity while protecting the internal finishes from the damaging effects of dampness. Internally



Figure 1: Cavity drain membranes were effectively applied to the interior vaults of the Grade I Listed Royal Courts of Justice, London. Here we can see the completed system, prior to the application of the internal finish

applied damp proofing membranes should be installed to about 200mm above the highest evidence of rising dampness so as to allow the natural vapour drive to continue unimpeded through the walls above the treatment.

Damp proofing walls above ground – penetrating damp

Penetrating dampness should always be treated externally at the source where the water is coming through. Water in its liquid state can only pass through a wall if there are defects large enough to accommodate it, and it is these defects that need to be repaired.

Many old walls were designed to be dampened by wind-driven rain, with the expectation that they would dry out before the moisture moved to the internal wall surface. However, persistent rain sometimes means that the

Continued overleaf...



Figure 2: This dry, clean internal wall finish at the Grade I Listed St George's Hall in Liverpool was achieved through the application of meshed damp proofing membranes in order to act as a damp barrier. Here we can see the membrane both pre- and post-application of the internal wall finish

moisture does reach the internal wall finishes, and shows as penetrating damp.

Specially formulated externally applied treatments will penetrate into the wall materials, blocking the capillary network and preventing moisture from entering the wall. Breathability also means that residual moisture and internal humidity can exit through the wall, resulting in damp-free internal walls that are dryer and therefore warmer, and with a dramatically reduced probability of recurring internal condensation.

Treating areas below ground

Subterranean areas will always be subject to penetrating damp due to the earth that bears against the structure. Water courses within permeable soil channel the water like pipes, and saturated soil develops a head of hydrostatic pressure that surrounds the subterranean structure, leading to water ingress through gaps and joints in the building fabric. To create habitable or useable areas the structure therefore needs to be waterproofed.

From a historic and listed buildings perspective, cavity drainage systems are ideally suited for below ground areas. When installed by professionally qualified contractors, the systems depressurise and collect water that enters the structure, removing it either via gravity or a pumping system. Internal finishes are isolated from the water by the membrane, leaving a dry and habitable space for the occupier even in the most demanding situations and the most historic structures.

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Optimising accessibility



Clos-o-Mat, one of Britain's leading authorities in the provision of disabled toilet facilities, in and out of the home, has added Fastrack CAD to its specification options. This complements the array of drawings that can already be accessed via the company's website, NBS and RIBA Product Selector. Now, CAD blocks, plus full technical

specification clauses/criteria, for an accessible toilet, hygiene room and a Changing Places facility are all available for quick and easy download. The blocks are complemented on Clos-o-Mat's website by a raft of typical room layouts and white papers giving additional design guidance.

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

enq.182

New IKO roof for Perry Hall Academy



IKO plc, a global leader in waterproofing and roofing products, recently completed a project to replace the roof at Perry Hall Academy, a large primary school based in Wolverhampton. Built in 1949, the school's roof was showing its age. IKO provided a detailed survey to help the academy with its funding bid. The

survey revealed serious problems – leaks, cracks in the mastic asphalt, pooled water and poor heat retention. IKO delivered a robust, long-lasting bituminous built-up roofing system. Products included IKO enertherm enhanced insulation to improve thermal efficiency and Goldseal Torch-On cap sheet which contains a fire retardant additive for improved fire performance.

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Pioneering bridge deck waterproofing



Stirling Lloyd is proud to announce that its Eliminator Bridge Deck Waterproofing system has gained European Technical Assessment (ETA) certification from the European Organisation for Technical Approvals (EOTA) through the British Board of Agreement (BBA). The ETA is based on

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Olympic Way

The redevelopment of Shubette House, at 5 Olympic Way, Wembley offers a unique opportunity to deliver a new mixed use development of the highest quality, delivering much needed housing and amenity provision to the area and presenting a genuine catalyst for future development of the area.

This landmark, innovative, mixed use development sits at a prominent junction adjacent to Olympic Way, the main pedestrian route connecting Wembley Station and Stadium. On site and nearing completion, the scheme is the second tallest modular building in London, designed around a central courtyard with a 20 storey residential tower rising from a seven storey block of housing on the southern boundary. To the west, fronting Olympic Way, is a 12 storey block with retail and a 237 room hotel. A lower four storey wing returns along the northern boundary to complete the central courtyard.

In 1999 planning was granted to demolish the former clothing warehouse and replace it with a large hotel development. This was subsequently deemed unviable and the client approached HTA to design a new mixed use, residential led scheme. After a year of collaboration with Brent Council the development was presented to the GLA in May 2008 and again in October 2008, where it was positively received. The planning application was submitted in late 2008 with permission granted in June 2009.



Aside from its innovative volumetric construction credentials, the project is significant because as a key first piece of the masterplan to be delivered it sets the standard for the regeneration of Olympic Way. Furthermore, it provides an exemplar model for mixed use development; achieved through a carefully considered juxtaposition of uses, a blend of public vs. private space and access, and a successful balancing of the need for privacy, security and shelter against the need for open aspect, views, and increased footfall for retail/commercial offer. The new appearance of Olympic Way: a rear-ventilated ALUCOBOND® spectra

Cupral facade now features an eye-catching metallic shimmer. 1,100 m² of ALUCOBOND® panels envelop the building.

The buildings were designed from the outset to be constructed with the Vision Modular System, a volumetric solution that delivers advantages in speed of construction, efficiency of the building fabric and the quality of the finished homes.

Paul Herbert,
Specification Manager
Richard Geater,
Sales Manager
www.alucobond.com

07584 680263

07584 680262



Canaletto tower balconies incorporate Schöck Isokorb



The Canaletto residential tower at 257 City Road in London is 31-storeys with 190 luxury one, two and three bedroom apartments built to the standards of Code 4 Sustainable Homes Level 4. The tower is concrete frame and has a curving facade of metal and glass that breaks the volume into a series of three-to-four storey clusters, each containing grouped balcony terraces. The balconies are steel construction connected to the concrete frame and as always

with cantilever construction elements, one of the early design considerations was the prevention of thermal bridging.

Thermal bridge heat losses are responsible for an increasing percentage of overall building heat loss, due to airtightness and fabric U-values being improved in UK Building Regulations. Thermal modelling calculations show that for multi-residential projects such as large apartment blocks, thermal bridges could account for 20-30 per cent of thermal losses, with balcony connections being a major contributor if effective thermal isolation is not incorporated.¹

The Isokorb range of thermal break elements from Schöck is designed to combat thermal bridging and for the high specification Canaletto project the Isokorb type KS20 offers the ideal solution. This concrete-to-steel connectivity module sits between the outer and inner structural connection points and blocks the outflow of heat

through the use of high quality polystyrene insulation foam. There are tension and shear stainless steel bars passing through it, which take the forces between the building frame and the balconies, enabling a thermally insulated, load bearing connection to be made.

The Isokorb range provides a huge selection of solutions for concrete-to-concrete and steel-to-steel, as well as concrete-to-steel – and the entire range offers the security of BBA Certification and LABC Registration. It also comfortably exceeds the requirements of BRE IP1/06 and Part L of the Building Regulations where the temperature factor used to indicate condensation and mould growth risk (fRSI) must be greater than, or equal to, 0.75 for residential buildings.

¹ For your free copy of the new Thermal Bridging Guide and / or the Schöck Specifiers Guide – contact the company.

01865 290 890 www.schoeck.co.uk

enq.188



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enq.190

Civic Supermarket

An elegant, contemporary colonnade clad in Nordic Bronze from Aurubis adds a sense of civic permanence to this city-centre supermarket, taking retail architecture to a new level.

On a key route into the heart of Chester, the flagship Waitrose store is fully integrated with a new public realm including a pedestrian bridge across the canal. As part of a master-plan for the area, alignment of the supermarket and the adjoining walkway enhance views of the historic 'shot tower', adding to its role as a landmark.

Nordic Bronze was selected at an early design stage for the colonnade and other façade elements. The building's designer Matt Brook, director of architects Broadway Malyan, said: "We wanted to use a material for the expressed frame that would reference the area's industrial heritage, particularly of metalworking. In addition, the strong, natural colour of the gradually weathering bronze complements the surrounding historic brick and sandstone buildings."

The colonnade and primary structural elements expressed on the exterior of the building are set out on a 7.9m structural grid and clad in sheet Nordic Bronze, with the principal elevations being clad in either perforated Nordic Bronze or glazed with a curtain wall capped with perforated Nordic Bronze fins. Both are set out vertically on a 1.128m grid sub-module of the primary structural grid.

Nordic Bronze is produced by Aurubis, part of the world's leading integrated copper group and largest copper recycler. Other copper alloys include Nordic Brass – now also available pre-weathered – and the innovative Nordic Royal with a long-lasting golden colour. In addition to Nordic Standard copper, other Aurubis Architectural surfaces include various Nordic Green and Nordic Blue factory-applied patinas – developed with properties and colours based on the same brochante mineralogy found in natural patinas all over the world. Nordic Brown pre-oxidised copper gives either light or dark brown oxidation that otherwise takes time to develop in the environment.



01875 812 144

www.aurubis.com/finland/architectural

enq.191

Refresh roofline with Anthracite Grey woodgrain



With the increasing popularity of grey window frames and colour composite doors **Freefoam**, a leading manufacturer of a wide range of innovative products for the building industry, announce the addition of Anthracite Grey woodgrain to its extensive roofline range. Six widths of Fascia and eight widths of Soffit along with matching Corners, Joiners and Trims in RAL 7016 equivalent gives specifiers, property developers and installers a comprehensive product range with an attractive contemporary woodgrain finish. Freefoam woodgrain products are manufactured using Exofol PVC film provided by leading supplier Renolit. This robust exterior grade film consists of two layers, the woodgrain finish in the base film uses Solar Shield Technology to protect the cladding against excessive heat build-up and the upper transparent layer prevents against fading caused by UV radiation or other weathering effects. These additions underline Freefoam's position as the colour specialist. In addition to foiled products, Freefoam manufacture an industry leading range of co-extruded fascia, soffit and trims in ten colours using its patented Colormax™ technology. Featuring built in colourfastness, colour variety, and reliable colour matching, all with a ten year guarantee, the range offers choice to architects, specifiers, property developers and homeowners.

enq.192

New Schueco slimline facade system is passive house certified



The continuing drive by **Schueco** to combine the slimmest possible face-widths with the highest possible thermal performance is demonstrated by the UK launch of the Schueco FWS 35 PD Panorama Design facade system. This innovative new aluminium facade has a uniquely slim face-width of just 35 mm, yet the SI version is officially certified by the Passive House Institute with a $U_{e,w}$ value of $0.79 \text{ W/m}^2\text{K}$. Visually very attractive, the system is ideally suited for low-rise, high-end residential and commercial projects. A choice of two levels of insulation is offered – HI (highly insulated) or SI (super-insulated) – enabling the Schueco FWS 35 PD facade to offer real performance flexibility according to specification needs. Importantly, Schueco AWS windows, including those with TipTronic automated operation, can be integrated easily where necessary, for ventilation. Alternatively, Schueco AWS 114 SG.SI slimline outward-opening top-hung windows or parallel-opening windows can be fitted. The Schueco FWS 35 PD facade system can accommodate double and triple glazed units from 22 mm to 50 mm thick with weights up to 250 kg per transom. Also available is a heavy duty version that can carry up to 400 kg. To complete the product's comprehensive performance characteristics, a burglar resistance class to EN 1627 RC2 can be achieved.

01908 282111 www.schueco.co.uk

enq.193

TROSIFOL® SC from Kuraray



TROSIFOL® Sound Control (SC), a sound-attenuating PVB acoustic film from Kuraray, has given Marvel Architects the ability to incorporate a substantial glazed facade on a residential development, which would otherwise may not have been feasible due to localised noise levels from the

surrounding locale. In order to meet the acoustic isolation requirements the architects were initially investigating the use of double laminated insulating glass – either side of an air space. However, by deploying TROSIFOL® SC, they were able to specify monolithic glass on the outside of the air gap and laminated glass on the inside, with the air space adding to both the sound and heat control properties of the panels.

enq.194

Silva branches out with yellow cedar



Silva Timber Products has expanded its product range by becoming the UK's first supplier of yellow cedar shingles and shakes. Yellow cedar is one of the world's most durable woods and its consistent grain structure means it is a good species for carving, joinery and carpentry. It grows along the Pacific coast of North America, from Alaska to Oregon, and is approved under the Programme for the Endorsement of

Forest Certification. Managing Director Nick Taylor said: "Yellow cedar has exceptional longevity, is economical and hardwearing. It's a beautiful species with excellent performance characteristics, and is highly-rated by those with specialist knowledge, such as architects."

01514 953111 www.silvatimber.co.uk

enq.196

Ashton 6th Form College reception



Comar Architectural Aluminium Systems; with its approved fabricator Window & Door Solutions (WDS) completed a striking and memorable new entrance and reception area at the Ashton 6th Form College. Comar 6EFT stick build curtain walling was specified for this project. Comar 6EFT provides a

capped curtain walling solution and offers architects the opportunity to maximise large glazed areas as it has the slimmest sightlines available making it the perfect choice for the quirky glazed facade of this new reception and entrance. In a busy education environment, Comar 7 doors sets are a natural choice. They are available in swing, pivot, sliding, auto-sliding and sliding folding.

0208 685 9685 www.comar-alu.co.uk

enq.198

Senior's windows revolutionise industrial mill



The transformation of a Grade II listed Victorian mill in Burnley, Lancashire into the North West's first University Technical College (UTC) has benefitted from a suite of windows from leading fenestration designer and manufacturer Senior Architectural Systems. Senior's SPW600e windows were selected

for the project as they offer a modern yet sympathetic solution that was in keeping with the look of the mill's original windows. Specified to give an ultra-thin sight line of 35mm, the three chamber 75mm polyamide window system not only offers an impressive thermal performance but also exceptional weather resistance, making it the ideal choice for use on a period property that is located on the banks of the Leeds and Liverpool Canal.

enq.200

Design concept realised with Airtec Glass



A vital factor in realising this ambitious design concept for the glass facade of the Siemens-Nixdorf's former computer centre in Munich, was the specification of Lithodecor's Airtec Glass ventilate rainscreen cladding system by the architect. The office building's original 1980's appearance has been

completely transformed by the new facade and its dynamic lines. The architect incorporated recesses in the glass envelope and used them to create the distinctive and elegant curve of the facade with its colourful features. The Airtec Glass system is an extremely impact-resistant composite panel, consisting of toughened safety glass (ESG) bonded to a special lightweight concrete carrier.

01785 818998 www.lithodecor.co.uk

enq.195

Powerturn makes access for all a breeze



Even the largest of doors can be opened with ease providing access to all thanks to the launch of the new Powerturn drive by GEZE UK. Powerturn is an automatic swing door drive that can be used manually thanks to GEZE's new Smart swing function so that even children and people with

restricted mobility can easily open large or heavy doors. It is ideal for use on internal and external doors and is suitable for single or double leaf doors. At just 7cm high, the drive can be mounted on the door or transom and be used to open large or heavy doors, with a leaf weight of up to 600kg (300kg on fire doors) or leaf width up to 1600mm. It can be integrated with other door control systems.

01543 443000 www.geze.co.uk

enq.197

VMZINC compact roof for Crematorium



A standing seam roof in VMZINC QUARTZ-ZINC PLUS® has been used in Howl Associates' design of Wyre Forest Crematorium in Kidderminster. It consists of a series of 'floating' roof forms separated from walls with frameless clerestory glazing.

Acoustic considerations were a prime concern due to the proximity of an adjacent industrial estate, major road and rifle range. Zinc, with its Green Guide A rating and compact roof build-up, was selected to deal with the complex geometry of the main chapel and used alongside green roofs on the site maintenance building.

01992 822288 www.vmzinc.co.uk

enq.199

Levolux takes a "Vue" in Farnborough



The long awaited Vue cinema in Farnborough is now open, with an ultra-modern exterior featuring an innovative Screening Solution from Levolux, a leading UK specialist. The cinema occupies a prominent position, so special attention was given to its external appearance to create a positive impression to visitors.

As a result, Levolux was approached to design, supply and install an unusual screening solution. The screening solution creates a distinctive, curved facade that projects outward and upwards. For increased protection, expanded mesh panels have been fitted to the rear of Fins, preventing birds from penetrating the facade, while further obscuring the view of unsightly structures for those passing by.

enq.201

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Roofshield continues to cover all bases



A Proctor Group's history of cold pitched roof construction for houses in the UK has led to a variety of solutions for insulating roof spaces either on the rafters or at ceiling joist level in order to achieve greater energy efficiency. However the resulting temperature differential has led to issues of condensation on insulation occurring in the roof space particularly in colder months. The original solution to this was to introduce some low and/or high level natural ventilation in order to allow air to circulate in the roof space.

Recently more technological solutions have been developed to address this issue by installing a breathable membrane over the rafters as the roof underlay, which will allow water vapour to escape, however not all membranes are the same. Many manufacturers have gone down the vapour permeable but airtight route, due to the increased drive to create airtight building solutions. Based on film laminated polypropylene technology, these solutions generally only offer moderate vapour permeability and a debate has been running for some time in the industry over whether roofs they are installed in will still suffer from condensation and require ventilating. This has led to a recommendation for a VCL to be used at ceiling level to reduce the moisture load into the roof



space when the film based laminates are used as the underlay.

As Iain Fairnington, Technical Director of the A. Proctor Group explains, building physics places limitations on the effectiveness of air tight membranes in alleviating condensation in roofs due to their limited vapour permeability: "If you have a big cold roof space, and you have a sudden drop in temperature, you want to have air movement, which is what ventilation provides. People assumed that because they were installing a vapour permeable membrane you didn't need to ventilate your roof, but in certain circumstances moisture levels were too high or temperatures too cold to allow the vapour to permeate without condensing."

By contrast, Roofshield developed by the A. Proctor Group is a membrane that has a far higher degree of vapour permeability, in fact the highest available, so will still perform in conditions in which air tight alternatives will not. Its credentials were endorsed following a cross-industry Partners In Innovation (PII) study undertaken by Glasgow Caledonian University, which "dispelled a lot of theories around ventilation" says Iain Fairnington. In fact the study, which included the NHBC, found that air permeable as well as vapour permeable membranes such as Roofshield would further reduce and inhibit the formation of condensation on the underlay when the roof is unventilated.

This led to the NHBC making an official

recommendation that Roofshield could be used without ventilation in roofs, which has seen a swelling of interest in the product among the UK's housebuilding industry recently, also aided by its hydrophobic and UV resistant qualities.

Meeting latest standards

The 2015 version of the BS5534 Code of Practice for Slating and Tiling is causing a stir in the industry currently, because in addressing wind uplift issues it makes requirements on certain membrane products to be taped at laps. However for the A. Proctor Group it has the benefit of further driving specification of heavier roof membranes like Roofshield. The company has undertaken full third party testing to establish that it is fully compliant with the standard, requiring no tape, and is providing specifications to interested parties on that basis.

Before the PII study there had been a lot of resistance to change in the industry, with some unsure as to the case for membranes as a solution to the problem of condensation in roofs in the context of a lack of clarity on whether ventilation was necessary. However it has shown that as an accepted water resistant air and vapour permeable solution which needs no roof ventilation and meets the latest standards, specifiers can be assured that Roofshield offers the simple answers.

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Will a hooped ladder provide a safe means of access your buildings?

Gordon McKeating of Safety At Height Limited discusses the misconceptions of the fall protection capabilities of hooped ladders and looks at the merits of integrated vertical fall arrest systems

Hooped or caged ladders are fixed ladders that have a circular and vertical bar arrangement which encloses the path of a worker when climbing a ladder.

Usually for architects such ladders give access to rooftops or loft space inside buildings.

They are seen as the most common fall-protection system on fixed ladders, especially on buildings, however, this really is a misconception.

Let's first consider the origin of these hoops. To catch someone if their feet slip? To prevent falls? Not true. They're were originally to stop miners being crushed by buckets that were raised and lower in mine shafts. So, in the origins of safety cages they are nothing to do with fall arrest or prevention.

Admittedly hoops do offer the user a sense of containment and depending on their size something to lean back on (not really best practice!). We should not however expect them to prevent falls.

This was confirmed in 2004 when HSE funded some research, published as RR 258 - Preliminary Investigation into the Fall-arresting Effectiveness of Ladder Safety Hoops (www.hse.gov.uk/research/rrhtm/rr258.htm), where test dummies were dropped down caged ladders of the older BS 4211:1987 design to see if the hoops worked. Unsurprisingly, they did not!

In 3 of the tests, the test dummy fell 6m down the cage onto the floor, after first striking the hoops several times. The final impacts, measured on the dummy, in real life would be fatally injurious.

In 4 of the tests the dummy managed to jam in the cage but at levels of impact that would cause significant injury. In such a case rescue would be extremely difficult.

In 2012 the HSE published a further Research Report (657), titled an 'Investigation into the fall-arresting effectiveness of ladder safety hoops, when used in conjunction with various fall-arrest systems'

The research was commissioned, following concerns regarding the interaction between fall arrest equipment and hooped ladders, to investigate the effectiveness of such combinations in providing worker safety from falls from height. The two reports conclude that:

- There is no evidence that hoops (also known as cages) on ladders provide complete fall arrest capability.



- Conversely if a fall arrest system is used there is a risk that the hoops can compromise its operation or effectiveness in preventing injury.

The HSE does not recommend the blanket removal of hoops from ladders (which would probably increase overall risk), or to prohibit the use of personal fall arrest systems within hooped ladders.

Continued overleaf..

So what are the alternatives? In recent years the use of Vertical Fixed Fall Arrest Ladder Systems (covered by the requirements of EN353-1 2014) has become more common practice. The key benefit of such ladders is that the user is continually attached during climbing and descending any ladder offering full fall protection.

The user does need to be equipped with the correct height safety personal protective equipment including a full body harness and a fall arrest 'Traveller' to secure him to the ladder. Confidence in working at height is improved knowing that he is protected throughout his access path.

An added benefit is that hoops are not required giving a much more aesthetically pleasing solution.

An additional consideration is the exit from the ladder at the top. Ideally any upper roof fall arrest cable system (or eyebolt anchorage) should be designed to run close to the ladder to enable the user to transfer from the vertical to the horizontal system with continuous connectivity.

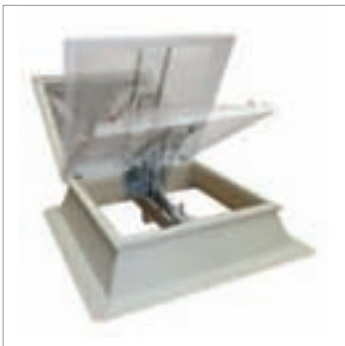
It is important to extend the central fall arrest rail of the ladder around 1100mm above the top ladder rung. This enables the user to step onto the upper roof without disconnecting from the system.

The hooped ladder may have been around for a long time however designing in the correct fall protection measures must surely be a step up in the right direction.



enq.206

Jet Cox offers a 'baker's dozen' of automatic smoke vents



Britain's most famous fire – which engulfed the capital in 1666 – reportedly started in a bakers shop in Pudding Lane and resulted in the first regulations on building construction to try and prevent future catastrophes. By coincidence the selection of "Smoke and Heat Exhaust Vent Systems" or smoke vents offered by **Jet Cox Limited** extends to 13 sizes all of which are fully compliant with the latest CE EN 1 2102-2 Certification. In fact the Jet Cox FireJet 165 24V/48V has been developed to provide automatic smoke extract in the event of any type of conflagration and thereby create a smoke free layer above the floor by removing both smoke particle and any potentially life threatening combustion gases. The FireJet 165 models can be activated by a dedicated smoke alarm or a remote third party fire detection system and are fully compatible with any modern building management system. Crucially the FireJet 165 is available with either a 24 volt or 48 volt control panel with battery back-up in case of mains power failure and there is the further option of manual override using switches close to the unit. Such capabilities are crucially important as smoke and noxious fumes are the main cause of fatalities in a fire disorientating people and asphyxiating them in minutes. Installing adequate smoke ventilation not only saves lives by facilitating the evacuation, but also makes it easier for the emergency services to gain access, to assist and tackle the fire.

enq.207

Klober Permo air used in listed church reroof



© Simon Kennedy

Extensive conservation and remodelling of the Grade 1-listed All Saints Church in Kingston-upon-Thames saw **Klober Permo**® air underlay used in the choir vestry reroof. The £1.7m project, designed by Ptolemy Dean Architects, a practice specialising in conservation work has opened up two entrances on the church's north side, transforming the church

into a revitalised centre for heritage and community in the heart of the town. Permo air has an unmatched standard of 'breathability' and this has prompted its growing use in both restoration projects and new build work.

01332 813050 www.klober.co.uk

enq.208

New roofing system sucks



A unique new flat roofing system is giving contractors peace of mind that however windy, the roof will stay put. **Protan's** innovative vacuum system is the only single ply roofing method to harness natural air movement to provide adhesion. The system

uses strategically positioned vacuum vents across the roof, the only fixings being at the perimeter and penetrations. Air movement across the roof and through the vents creates suction, drawing air from between the membrane and airtight substrate below, causing the single ply to 'stick' to the roof. The stronger the wind, the more the membrane adheres to the roof structure.

01925 658 001 customercare@protan.co.uk

enq.209



Axter waterproofing for Admirals Quays

Axter Ltd is the waterproofing designer and supplier for this vibrant waterfront new homes development in Southampton, forming an integral part of the riverside's rejuvenation that includes courtyards, gardens and squares. The landmark 26 storey residential tower and supporting 16 and 9 storey residential buildings incorporate a landscaped terrace at second floor level between the first two buildings. This provides an exciting space for new restaurants, creating active areas of public space within the marina. Axter's brief was to design and supply a robust inverted second generation hot melt structural waterproofing system (Wilotekt-Plus) in collaboration with the Axtershield Installer, project architect and developer construction team, carefully managing the many challenges posed, in particular the waterproofing interface junctions between existing and new structures. Axter utilized its full system portfolio including the Exceljoint movement joint system to good effect to ensure the waterproofing was completed to the satisfaction of all parties.

01473 724056 www.axter.co.uk

enq.210



Bauder's green roof and PV synergy

Flat roof manufacturer **Bauder** launched its revolutionary solar PV mounting system for biodiverse or extensive green roofs, Bauder BioSOLAR, at the inaugural 'European Biosolar Roof Conference' that took place in September at City Hall in London. Designed primarily for new build applications where environmentally friendly solutions are required to meet planning and BREEAM requirements; this integrated system addresses the misconception that green roof and PV technologies are mutually exclusive options. Bauder's innovative BioSOLAR system uses the substrate and vegetation to provide the ballasted installation mechanism, removing the need to penetrate the waterproofing to secure the mounting units to the roof and making the most of the available area for vegetation, enabling the entire roof to qualify as a biodiverse green roof. Although well suited to new build applications, the Bauder BioSOLAR system can also be retrofitted on many existing roofs without the need for any structural modification to the building.

01473 257671 www.bauder.co.uk

enq.211



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Protecting best value to deliver flagship facilities



A £36 million leisure centre is delivering best value for its developer from the roof down. The new Huddersfield Leisure Centre, being built by BAM for Kirklees Council, will benefit the health & wellbeing of the local people, the

environment, largely through the choice of its roofing: a combination of 6,500m² of Protan SE prefabricated single ply membrane, and 1,500m² of Protan's ProGreen green roof system. Protan's prefabricated system uses Protan SE single ply membrane, which has been developed to withstand even the harshest weather conditions found in Europe, and is proven to perform for 30 years.

01925 658 001 sales@protan.co.uk

enq.213

20 year vision leads to unique restoration



An ambition going back decades has led to the stunning restoration of a large, derelict Grade II church into 82 studio apartments, many completely within the original early 18th Century church building, with more than 200 windows made from the Spectus Elite 70 system. An integral part of the restoration is more than 200 high-specification windows using the Spectus Elite 70 bevelled system, which were used in both the restored church and the adjoining new building. Because of the unique construction of the building within a building, many of windows in the church actually look out onto the original windows from the inside.

01952 283344 www.spectus.co.uk

enq.215

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Project: Winchester College Music Building Architects: BHM

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Sheerframe doors can resist the floods



Sheerframe flood doors from Synseal have been independently accredited and Kitemarked to meet the specifications of PAS 1188-1 (Flood Protection Products Part 1: Building Aperture Products) for single and double doors. The doors remained watertight under dynamic tests simulating waves and rapidly moving water. French doors are also approved with just 0.001 litres of ingress after 48 hours, which

compares most favourably to the standard test pass leak rate of up to 1,000 ml/m/hour. Sheerframe flood doors not only hold water out but, unlike the alternative of flood boards, they function easily and look like normal doors. They are fitted with specialist hardware to provide near impregnable watertightness.

01623 443200 www.synseal.com

enq.214

30 years and counting for VEKA fabricator



2015 marks the 30th year in business for Gemini UPVC, a renowned Oldham-based fabricator of VEKA PVC-U windows and doors. Gemini boasts strong, long-standing relationships with The VEKA UK Group and its industry-leading installer support programmes, as Director, Paul Griffiths explains: "The support we receive as a VEKA Approved Fabricator and a member of Network VEKA is second to none. It's definitely

played a major role in our continuing success, helping us to maintain consistently high standards, keep ahead of changes in the industry and assisting us in marketing ourselves at a standard that few competitors can match."

01282 716611 www.vekauk.com

enq.216

Engaging brochure details celsius solid roof



Installer and homeowner enquiries for Synseal's innovative Celsius Solid Roof are now fully supported by an informative new sales brochure entitled "Quick to fit, strong and warm... the right roof for the job." This engaging and well-presented 24-page publication provides full technical details to illustrate how the

product components are delivered to site in kit format to exactly meet project specifications and then swiftly fitted together to build a truly warm roof construction. The brochure fully explains this fundamental technical advantage along with sections outlining end-user benefits, speed of installation, key suppliers including Velux roof windows and Rapierstar stainless steel fixings.

01623 443200 www.synseal.com

enq.218

Customers get competitive prices 'Assured'



Following The VEKA UK Group's unique offering of the industry's only BSI-notified, BFRG-certified window and door energy performance calculator last year, customers are now being given the opportunity to generate

their Window Energy Ratings (WERs) and Door Set Energy Ratings (DSERs) at a fraction of the normal cost. Network VEKA's independent, UKAS-accredited Competent Person's Scheme, Assure provides a raft of benefits for its members, such as self-certification for Building Regulation-compliance, subsidised NVQ qualifications and more. Assure's latest offering enables VEKA and Halo customers to generate energy ratings at extremely competitive rates.

01282 716611 www.vekauk.com

enq.219

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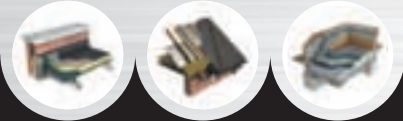
It's fair to say that at Recticel we aim to manufacture the highest quality insulation boards, getting as close to perfection as is physically possible. With a super-flat board with an excellent surface finish, high compression strength and precision cut straight edges, our product is ideally suited to the requirements of the construction industry. It's as close to perfect as we can make it.



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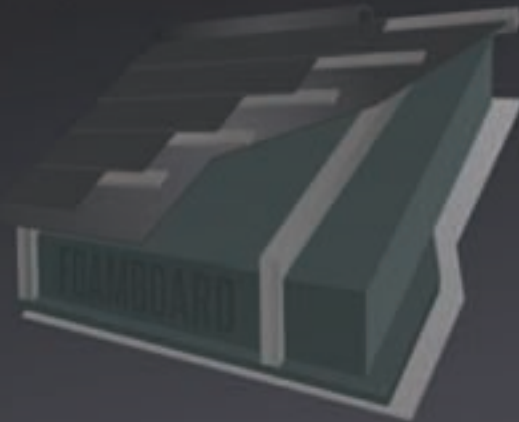


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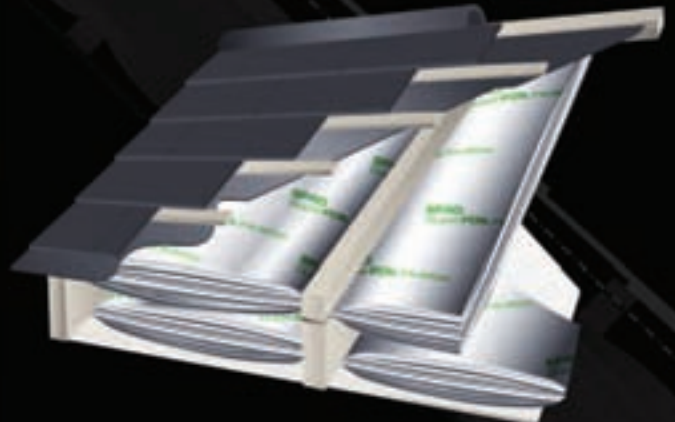
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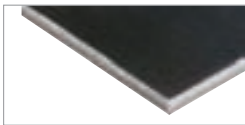
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www.superfoil.co.uk

Builder Developments Ltd, SuperFOL BHF, Mar Street, Norwich, Norfolk, NR23 8JY

enq.221

New protective layer for Kingspan OPTIM-R



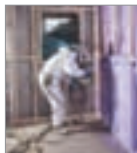
Kingspan Insulation has made it simpler than ever to achieve optimum levels of thermal performance with the introduction of a new pre-bonded protective layer for its Kingspan OPTIM-R vacuum insulation panels. The

protective layer, which can be bonded to either one or both sides of the Kingspan OPTIM-R panel, allows the product to be fitted directly onto substrate without the need for an additional protective sheet. The pre-bonded OPTIM-R panels can be used in a range of applications and can help to simplify and streamline installations, saving both time and cost. Kingspan OPTIM-R panels are also certified under the demanding BDA Agreement® scheme.

01544 387 384 www.kingspaninsulation.co.uk/optim-r

enq.222

Walltite helps to insulate restored chapel



Converting a solid stone disused chapel into a warm and comfortable family home needed some heavy duty insulation – fortunately, **BASF WALLTITE®** was able to cope with all the idiosyncrasies of the project, which is soon to be featured in Channel 4's *Restoration Man*. Owner Colin Clewes embarked on this ambitious conversion in order to create a dream home

for his family. Taking a disused, unheated shell of a building as a starting point, Colin, doing much of the work himself, is firmly in charge of the building process and insisted on the use of **WALLTITE®** spray foam insulation. **WALLTITE®** is applied as a liquid that expands on contact to form a highly insulating rigid foam. This method of application means that it can cope with any substrate.

01773 601166 www.walltite.basf.co.uk

enq.223

AcoustiPanel™ I4



AcoustiPanel™ shown over both joisted and solid floor

This new acoustic solution from **Nu-Heat**, produced in partnership with Knauf, comprises a pre-routed Knauf gypsum board bonded to acoustic fibreboard, into which Nu-Heat's 14mm tube system is neatly installed. The tongue and groove panels offer high thermal conductivity allowing a quick transfer of heat into the room and create a stable, monolithic floor finish with minimal movement. Exceeding Part E, this solution is particularly suited to new build and conversion apartments where an efficient and discreet underfloor system is required as an integral part of an acoustically secure system that is simple to install. This tailor-made acoustic UFH system offers: Heating and floor deck in a single solution over a solid or timber floors; A low profile UFH solution combined with outstanding acoustic properties, exceeding Part E; Minimal height build-up at just 33mm, saving typically 67mm compared to typical acoustic batten solutions; Low weight solution at only 25.8 kg/m², saving 74.2 kg/m² compared to a 50mm liquid screed or 117.2 kg/m² for a typical 65mm sand & cement screed UFH system; A sustainable solution, with the gypsum board being made up of a minimum of 60 per cent recycled product. For specification data and more information visit www.nu-heat.co.uk/ap14.

01404 540650 www.nu-heat.co.uk

enq.224

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enq.226

Kingspan Koolduct® helps revitalise library



The University of Hull has opened a new chapter for its main library with a multi-million pound redevelopment, providing a light, modern facility which is supported with premium products such as The **Kingspan Koolduct®** System. The product features a premium performance insulation core, allowing it to achieve very

low thermal conductivities and can also be used to produce ductwork with minimal air-leakage, leading to considerable energy savings over time through reduced fan energy usage. The product is also listed as a Class 1 Air Duct, to Standard for Safety UL 181 (Underwriters Laboratories: Factory Made Air Ducts & Air Connectors), when fabricated to a specification clearly defined by UL.

01544 387 384 www.kingspaninsulation.co.uk

enq.225

New equipment for First Point, Gatwick



AET Flexible Space, manufacturer and supplier of under floor air conditioning (UFAC) systems has received an order for replacement equipment for the second floor of the First Point Buckingham Gate building at Gatwick Airport. Originally constructed by BAA Lynton in the late 1990's and

equipped throughout with AET Flexible Space equipment, the property is one of few Grade A offices located adjacent to Gatwick South Terminal. The installation at has a CAM-C system installed throughout, offering flexible under floor supply and under floor return air conditioning. AET is pleased to remain involved with this signature building sixteen years after the original construction.

01342 310400 www.flexiblespace.com

enq.227

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E: enquiries@zehnder.co.uk

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Faber Blinds products in landmark project



Faber Blinds is helping to inspire the next generation of landscape professionals at the RHS Hyde Hall's new £3m Learning Centre. The company, part of the Hunter Douglas Group, has supplied the 1800 FTS system, an efficient and flexible motorised tensioned roof light blind that provides solar shading for horizontal or sloping internal roof light windows. Faber 1800 Blackout Blinds can be used for both large and small windows, but the system has been specifically designed for large areas of glazing with each blind capable of covering an area up to 4000 x 6000 mm.

01604 766251 www.hunterdouglas.co.uk

enq.234

State of the art home comfort



A North London property is now benefiting from Wi-Fi controllable air conditioning that links to a state-of-the-art automated home system to provide cost effective and energy efficient comfort all year round. **Orbital Climate Solutions** worked with the home automation specialists **IntelliCasa**, to deliver

a first-class climate control system that provides discrete comfort for the homeowner. Brett Strivens, managing director at Orbital explains: "The M Series from Mitsubishi Electric proved perfect because it would deliver the right climate to the environment and offered the option of the MELCloud Wi-Fi controller which we were able to integrate into the Intellicasa control system".

0800 246 1615 orbitalclimate.co.uk

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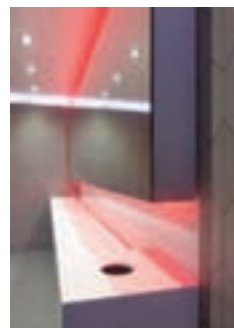
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enq.236



A new solution to an age old problem



Save time, water, energy, soap, space and money with Alavo – the new name for Dolphin Dispensers' successful behind mirror modular system.

Our radical new modular system, is the perfect blend of style and substance and is the complete solution where projects require excellent BREEAM, LEED or SKA ratings.

For architects, contractors, cleaning and facilities teams, Alavo's plug and play design minimises time spent designing, installing and servicing the washroom area.

For washroom users Alavo features fully integrated infrared sensor taps and foam soap systems, and high speed low energy hand dryers so that they can wash, soap and dry in one position using the latest technology.

Alavo – the complete washroom system

Specifications:

- Elegant and clean design, fits into any project
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www.dolphindispensers.co.uk

enq.237

Game, set, match for Ahmarra Installations



Ahmarra Installations has completed a joinery fit-out sub-contract for the world famous All England Lawn Tennis Club (AELTC) at Wimbledon.

A series of orders were secured with the AELTC in which Ahmarra's skilled joiners worked to tight deadlines to deliver the scheme in time for this year's Championships, while ensuring the promised high quality levels of finish and design.

Ahmarra Installations undertook work in the Aorangi Pavilion, Millennium Building and the new areas underneath Courts 14 and 15, which houses the 24-hour media restaurant, a bespoke working area for some 250 photographers as well as new accommodation for the ball boys and girls. This order forms part of AELTC's Master Plan for the Club and The Championships which includes the construction of a new retractable roof over No.1 Court.

"We are delighted to be associated with such a prestigious British institution and we hope that our efforts will evolve into a long term relationship with this landmark sporting venue" commented Richard Panrucker, Ahmarra Installation's director. "Our installation team worked to a very tight programme of works whilst still providing enough flexibility in the project plan to allow for any unforeseen challenges, as it was vital that that we



had no negative impact on the day-to-day running of Wimbledon" said Richard.

The highly bespoke works included press, writers and radio desks, dressing room benches, player support desk, wall planter system, counter tops, roller shutter cupboards, shelf units, vanity units, changing cubicles, lecterns and internal fire doors.

02392 389 076 www.ahmarrainstallations.co.uk

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www.apolloradiators.co.uk



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Heradesign offers first class performance



Heradesign ceiling rafts were installed at Singapore Airlines' (SIA) new Premier Lounge at London Heathrow Airport. Heradesign panels are lightweight, making them easy to cut and install. They are a versatile solution for any interior because they can be fitted as a suspended ceiling, hung as rafts or fins, or

directly onto walls or ceilings. Kunal Vekaria at HLS Installation fitted the ceiling rafts explains how Heradesign helped overcome the technically challenging restrictions: "Knauf AMF worked with us to ensure the fixings would hold and advised on how to ensure the panels would sit flush. We have worked with Knauf AMF before and were confident we'd get a good result."

020 8892 3216 www.knaufamf.co.uk/heradesign

enq.239

Optima Baffles Curves

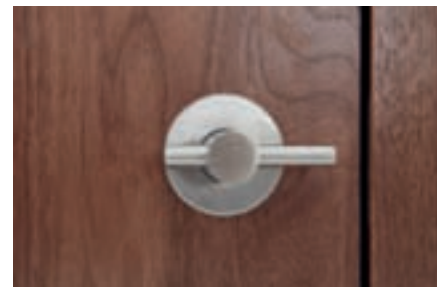


Armstrong Ceilings has stolen an industry first with the launch of Optima Baffles Curves to enhance its existing range of rectangular ones. The mineral Optima curved baffles feature all the benefits of the traditional rectangular ones but with the added twist of a unique waveform edge which allows designers to create a fresh aesthetic without compromising acoustic performance. Especially suitable for large open spaces with contemporary exposed soffits such as transport hubs, schools and offices, the new curved baffles

are ready to fix from a standard suspension grid or direct from the soffit to give easy plenum access, arrayed or staggered for an even more exciting dynamic.

0800 371849 www.armstrong-ceilings.co.uk

enq.241



A closer look at Sytan

To have real belief in something, it has to look just as good on the inside as well as out. A smooth talker with no substance just won't cut it. Amwell Systems created Sytan, and designed it from the core first, so you can rest assured that beneath its beauty lies a solid truth.

The company started with a high density 680kg/m³ board. It keeps our sleek stainless steel fittings in place for years to come, making sure your washroom is free from ugly squeaks, creaks, and rattles. Let's take the rise and fall hinges, for example. They can support over 125kg, without

moaning about it in the slightest, and they're engineered to disappear back into deep rebates in the heavyweight door – creating a hushed, unrushed door closure every time.

Even the details that seem insignificant have been analysed and planned to perfection. Consider your rebate lipping – something that could easily be compromised. Sytan's lipping is always made from hardwood, matched and stained to Sytan veneer, or finished in a stunning contrast to HPL. In the case of Solid Surface, we can even craft the lipping from Solid Surface itself.

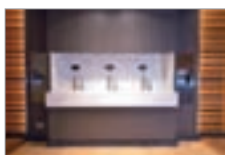
Floor finishes may escape the eye when you enter a washroom, but to Amwell Systems, they're just as important as the smooth flush front. Hardwood blocks can also be stained to match a veneer, or shrouded by the cool, clean lines of a stainless steel or tiled skirting.

With Sytan, every element you see, touch and feel should convey the same luxury as the solidness of an expensive car door, and everything works in pure harmony with the rest of the system. That's just the Sytan way.

01763 276200 www.amwell-systems.com

enq.242

DuPont™ Corian® makes waves for P&O



CD UK and washroom fittings manufacturer Lovair joined forces to supply and fit hand washing units for washroom areas and at the entrances to the dining areas on the newest P&O cruise liner The Britannia. Designed by Richmond International to have a British ambience throughout the vessel,

the 1,082 ft long ship took her maiden voyage earlier this year, carrying 3,600 passengers and 1,400 crew. The Corian® hand-wash units were individually crafted in Lovair's Stockport workshop, and ranged from 1.2 to 1.8 Metres in length. The sanitary, easy to clean, seamless qualities of Corian® bring added value to this closed environment where hygiene is of paramount importance.

0113 201 2240 www.cdukltd.co.uk

enq.243

Rada product makes perfect 'Sense'



Rada, the experts in commercial showering and washroom controls, has continued its long standing relationship with Keele University with a further installation of Rada Sense concealed digital mixing valves. More than 1,400 market-leading Sense units have been installed over the

last six years at the Staffordshire site, which welcomes more than 100,000 visitors throughout the year. Rada's TMV3 approved Rada Sense concealed digital mixing valve range is ideally suited to student environments as it can be used across washbasin, bath, single and dual shower units to provide non-touch flow and temperature control. Rada Sense meet L8 Compliance requirements.

0844 571 1777 www.radacontrols.com

enq.244

Maxwood goes for gold



Luxurious washrooms by Maxwood, specified in a stunning gold and black colour scheme, are among the premium facilities for the new tenants of Broadgate Quarter in the heart of the City of London. The major remodelling project by ISG on behalf of developer Hines provides Grade A office space, managed by

Helix Property Advisors, in one of the capital's most desirable locations. The new washrooms feature laminated glass with a unique metallic effect from the Swisslamex range. Inlaid with a 'gold' coated fabric mesh, the glass creates a shimmering finish to duct panelling and vanity splashbacks that changes with the light and angle of view.

enq.245

One book and three new appointments




Methven, the global designer and manufacturer of premium showers and tapware, has strengthened its sales and marketing function with the launch of its new brochure and the appointment of three area sales managers. The new 'One Book' features showers, taps and accessories from both Methven and Deva – the first

time that products from both brands have been published together. The sales team itself has recently seen three new appointments, increasing Methven's support to customers across the UK. Aaron Hughes will oversee Methven's sales operations in central and eastern regions; Rachael Gray (pictured) will look after the South East; and Jordan McLeod will be taking care of Scotland.

08001951602 www.methven.com

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Smart Design

Fully integrated home automation is growing in popularity and it is important for architects to understand the opportunities, as well as how to accommodate it within building design. Tennant, Marketing Director of smart homes technology specialists Cyberhomes, explains

Homeowners seek a flexible, user-friendly approach to control provided by the latest intuitive software, operated by touch-screen controllers and occupants' smart phones.

Lighting control

Every light in and around a house can be dimmed or switched on and off with these devices, and using discreet wall panels replacing conventional switches. Unlike traditional wiring, each circuit is wired back to the dimmer pack, with a separate cable for controls. Pre-set scenes can be created, perhaps involving automated blinds or curtains, and the latest LED lighting enables a greater use of colour whilst making significant energy savings. Additionally, all the lights in a house can be turned off with a single button or holiday mode selected, creating the impression that the house is occupied.

Maximising choice

Discreet ceiling speakers in any rooms and external speakers can be organised into audio zones, each providing music and sound selected from the central AV system. Similarly, video content from multiple, centralised sources—such as Sky, Virgin TiVo and Apple TV boxes, Blu-ray discs and movie servers—can be

distributed to TVs located anywhere in the house. Systems can include a music player for each individual to enjoy a specific music collection and streaming services.

While dedicated cinema rooms are still called for in larger homes, very often a single room has to work both as a living space and a high-specification 3D home cinema. Here, at the touch of a button, a projector can descend from the ceiling, a screen lowers in front of the TV, the lights dim and blinds close, creating the ultimate home cinema experience with stunning picture quality and surround sound. Speakers can be in-wall or hidden behind removable, 'acoustically-transparent' fabric panels and most of the equipment located in a plant room away from the living spaces, to minimise the impact on interior design.

Integrated security

Smart technology allows discreet CCTV cameras and door or gate entry systems to display on any of the control panels throughout the house or on smart phones including when away from home. Owners can also check and adjust heating, lighting and other functions remotely. Intruder alarm systems can be integrated with home automation, allowing additional actions to be triggered automatically. For example, by arming the

Continued overleaf...

intruder alarm, lights can automatically turn off, vacation mode occupancy simulation started and heating reduced. When the alarm is disarmed, an entry lighting scene automatically activates and the heating returns to comfort levels. Whilst the system is unarmed, security sensors can be used as occupancy detectors, for example turning lights off and reducing heating levels if rooms are unoccupied for a length of time.

Today's clients are keen to maximise the opportunities presented by new smart homes technology but often with as little on show as possible, minimising 'wall clutter'. Close liaison with interior designers and architects is therefore key to optimising best performance and visual design. And smart homes specialists should be involved in building projects from the start, working alongside architects, developers, interior designers and M&E consultants to integrate the system with the overall building design and performance. This will also ensure that accommodation of the extensive cabling needed, provision of a suitable plant room and minimisation of visual impact from equipment are all effectively catered for.

Reliability and long-term performance

Wireless networks for fixed equipment are generally not reliable or fast enough, and suffer from 'dead spots' as well as interference from other electrical items and the foil backing now common on plasterboard. Wireless is recommended only for devices that need to be handheld or portable such as



remote controls, smart phones and tablets. A structured cabling infrastructure based on 'star wiring' layouts—as opposed to 'daisy chaining'—is key to consistent quality, flexibility and future-proofing of home automation systems. For reliability and long-term performance the necessary racks of AV equipment should be built and tested, and all the wiring looms created in a controlled environment off-site.

An RIBA accredited CPD 'Designing Integrated Future-Ready Homes' is available that covers the concepts of smart home technologies and highlights some of the potential pitfalls, which Cyberhomes presents on behalf of the trade body CEDIA.

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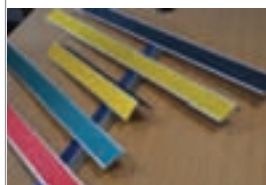
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enq.254

Linstone Housing Association gets a perfect finish from Encasement



Linstone Housing Association's recently opened office at Linwood in Renfrewshire is using a range of 'Circa' and 'Forma' column casings from **Encasement**, to conceal interior and exterior structural steelwork while helping create an aesthetic finish to the building's contemporary design. The office is located on the new Linwood Town Centre complex, and provides a centre for all of the housing association's activities in the region including the management of its 1,570 properties. All 32 column casings are 550mm diameter and were manufactured, supplied and installed by Encasement with 19 PPC coated Forma aluminium column casings, each standing 3,000mm high, being used to conceal the building's external structural steelwork. For the interior, Encasement's 'Circa' preformed plywood column casings were used, ranging in height from 2,700mm to 4,100mm, which are finished in a durable laminate capable of resisting scuffs and damage in busy areas and high traffic applications. Encasement's MD, Martin Taylor, said: "It is more common for us to supply housing associations with our pre-formed pipe boxing and boiler pipe casings for use in their own properties, so the opportunity to supply and install our column casings for the new office building is a little unusual, even though our Forma and Circa casings are widely used in countless projects from commercial, residential and retail through to education, hotels and public buildings."

enq.255

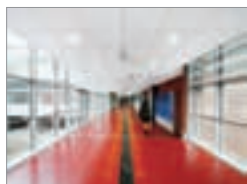
RMIG appears on The House That 100k Built

RMIG has helped an ambitious couple on BBC TWO show *The House That 100k Built* to successfully build their dream home in Burnley. The world's leading perforated materials specialist was shown on the programme and delivered an eye-catching perforated decorative panel that would transform the dull staircase into a striking centrepiece of the home's downstairs. With Wajid and Anam keen to create a unique wow-factor within their six bedroom Burnley home, the couple required a perforated screen that would further enhance the aesthetically pleasing nature of the large hallway and complement the other areas of the glamorous home. RMIG worked very closely with Wajid and Anam during the consultation period and specified a 3mm thick aluminium screen featuring Islamic script that was extremely personal to the couple. Using its innovative ImagePerf technology, RMIG expanded on Anam's artistic designs and produced a stylish and tasteful floor to ceiling perforated screen, finished in a RAL 1036 Bronze Satin polyester powder coating. With the couple's time and budget constraints in mind, RMIG delivered the high quality and stunning screen in a cost and time effective manner, much to the appreciation of Wajid and Anam who were keen to move into the finished home with their new born baby at the earliest possibility.

01925 839 600 www.rmig.com

enq.256

Armstrong introduces a Perla of an offer



Armstrong Ceilings has relaunched its popular Perla portfolio to offer specifiers a simplified but improved contemporary laminated range which is also Cradle to Cradle certified. Its Perla OP 0.95 ceiling tile became the first mineral tile in the world to win Cradle to Cradle status two years ago and now the whole range joins

Armstrong's Ultima+ range in earning Bronze certification. Cradle to Cradle is recognised by LEED and Ska as a key environmental criteria. Also like Ultima+, the improved Perla range includes best-in-class fully-painted edges for additional aesthetics and durability, a new MicroLook 90 edge detail for an improved fit.

0800 371849 www.armstrong-ceilings.co.uk

enq.257

FAKRO embracing 'Z-wave' technology



FAKRO FTP-V Electro natural pine and FTU-V white, PU-coated pine roof windows now incorporate 'Z-wave' wireless technology. This enables them to be controlled alongside blinds and appliances from manufacturers such as Apple, Intel, Panasonic, Danfoss and GEC. Operation can be through a range of single and multi-channel wall keyboards and programmable remotes, giving users scope to create their own system with a virtually unlimited range, all from a single chip. Range is virtually unlimited

and the ZWPTV, the ultimate multi-channel remote has an active screen and capacity to operate up to 36 receivers separately and many more in groups.

01283 554755 www.fakro.co.uk

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The modern evolution of limestone effect tiles



A new take on the look of Limestone, Evolve by Solus Ceramics is a mixture of the fabulous qualities of natural stone and a modern palette of colour options. Each tile features a distinctly natural persona, showcasing lifelike features such as cloudy speckles and tonal movement. Luminescent in colour quality, the tiles in the Evolve range glisten with delicate highlights, which are contrasted by shadowy spots of tone. Centred on a core group of four neutral shades and perfect for both residential projects and

commercial zones, the tiles in this range are available in an anti slip R11 finish, which provides a fantastic level of slip resistance and reliability.

0121 753 0777 www.solusceramics.com

enq.260

Polyflor adds the finishing touches to canteen



Vinyl flooring from Polyflor's Classic Mystique PUR and Expona Design ranges was recently used to create a fresh, modern office environment for international technology company Analog Devices in Co. Limerick, Republic of Ireland. 500m² of Classic Mystique PUR sheet vinyl flooring in two

complementary grey shades, Silver Mist 1430 and Nocturne 1380, was installed within the office canteen to provide a neutral base for the bright furniture and food serving stations. Available in 16 colours, this hard-wearing, non-directional, homogeneous floorcovering was used throughout the canteen's seating and serving areas, the two colours creating different zones and pathways.

0161 767 1111 www.polyflor.com

enq.261

neaco roof walkways handle technical challenges



neaco's roof access walkway products have been specified at The Curve, Teesside University's new £20 million flagship building comprising 1,476 square metres of innovative teaching and learning space.

neaco's aluminium walkways were chosen by Eurosafe Solutions, a leading European specialist in fall protection and access solutions, as components of systems which comply with Work At Height Regulations and British Standards in providing approximately 210 linear metres of safe walking area for roof inspection and maintenance operatives.

Sam Wakeling, sales estimator at Eurosafe Solutions, said: "neaco's products were ideal for the demanding technical requirements of this project which included a curved roof structure – the walkway is a versatile system which has the ability to adapt to its curvature. It's also very strong, robust and looks great in comparison to plastic alternatives on the market."

neaco's UK Business Development Manager, Peter Melia, said: "Our roof access products are widely specified at major projects across the globe as part of Kalzip Quick Fix Grillage and ManSafe systems. Like The Curve, many of these projects have contoured roof designs which require the kind of adaptability which is a major advantage of our systems."

enq.262

RailRoad launches at the Landscape Show



Furnitubes International, a leading UK manufacturer and supplier of street furniture, can now confirm the launch of a new product range, RailRoad. Launching at the Landscape Show 2015 in Battersea park, RailRoad is the latest addition to the SmartSpace collection.

SmartSpace represents an innovative approach to public

realm furniture, where products are designed to be flexible and adaptable. The new RailRoad range of seats, benches and tables is the ultimate in modern, flexible seating design. Based on a series of interchangeable straight and curved modules, and inspired by railways and model train sets, the range is designed to be joined together to create seamless runs of continuous seating.

020 8378 3200 www.furnitubes.com

enq.263

Elegant Electra™ litter bin



Electra is a contemporary twist on a classic metal litter bin. Designed for the modern environment, the subtle colour and unique shape will blend in harmoniously with contemporary architecture. Electra litter bin from Glasdon UK combines stylish simplicity with exceptional strength and functionality. Electra is an environmentally friendly litter bin with body panels produced using Vandalex® material, and the framework manufactured from steel

with Armortec® coating. Both materials are 100 per cent recyclable after the bins service life. Electra is also corrosion, vandal and fire resistant. For more detailed information please visit the company website.

01253 600400 www.glasdonlitterbins.com

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How technology can be used to make our landscapes 'smart'

Marshalls street furniture Commercial Director, Steve Reddington, talks about how technology can be used to make public realm spaces more accessible for all

Cities powered by technology, or smart cities as they have become more commonly known, are still considered by many as a futuristic concept, however technology is being developed in the landscaping sector today which is making this vision a reality and which will change people's relationships with our towns and cities forever.

Our public realm is filled with items which help us with our everyday lives; bins, bollards, seating, lighting and signage to

name but a few. These items are crucial to our safety and wellbeing, however just imagine how much more effective they could be if they were able to adapt to our individual needs?

In collaboration with digital designer and engineer Ross Atkins, Marshalls has developed a pioneering technology which makes this a reality.

Ross had undertaken a research project where different groups of people were observed as they moved through public space and he was struck by how much of the design of our streets was defined by a tradeoff between the needs of different people, the aim of this project became clear – to create spaces that work better for everybody and that everyone can enjoy equally.

In other words, this revolutionary technology enables our urban spaces to respond to the needs of different users and have a genuine and significant impact on their quality of life.

The technology works by enabling direct communication between the user and the items within the public space. A pedestrians smartphone, tablet device or specialist fob can be set up to communicate their specific requirements to the public realm, offering the ability to adapt each service to their needs.

Sensors inside the lighting and street furniture are able to detect when someone with the mobile device application is

Continued overleaf...





near, and depending on the user's settings, will react to the needs they have requested assistance with.

Elderly or visually impaired users will be able to set an increase in surrounding lighting. This means that if they walk past a streetlamp using the intelligent street furniture technology, the bulbs will shine brighter as they approach and dim back down once they have passed in order to aid vision.

Acting as a point of call for information, directions and assistance, monoliths are a vital part of any public space. These can now be adapted so they communicate with users – be it changing the contrast lighting on the map, reading out directions or stating a user's current location.

Intelligent bollards can assist the blind by communicating the name of the store or location they are passing by, so they can be confident of arriving at their destination.

The realities of an aging and more urban population mean that we need to be developing ways to make our public spaces more inclusive; it is expected that there will be around 19 million people over the age of 65 by 2050, a staggering figure. An aging population is a real and imminent issue for the UK and as such it is a necessity to start creating urban spaces that are aware of the special needs of all the UK's citizens including the needs of aging populations.

This technology is available now, however this is just the beginning of a hugely exciting time as we are only just scratching the surface of what is possible, the technology has huge potential and we intend to continue developing it to create even better spaces in the future.

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Hauraton surface drainage systems installed

Early in 2012 it was decided to refurbish the older building at Maltby Academy and build a new open plan business / enterprise centre and sport science block. In addition, the old gymnasium was to be converted into a performing and creative arts facility. The £10.9 million contract for the re-development was awarded to BAM Construction of Leeds, in June 2012. The site was fully operational by September 2013. Architects for the new buildings were Bond Bryan, Sheffield office. With the site being quite flat, and the old and new buildings' surrounded by paved and asphalt surfaces, it was essential rainwater is drained effectively. Two **Hauraton** channel systems were chosen to drain surface water: RECYFIX® PRO 100 with FIBRETEC® C250 gratings for the asphalted yards and car park and RECYFIX® SLOTTED channels for the paved walkways, these providing an unobtrusive, narrow line of slots in the paved surfaces. For the full Case Study, please visit the website.

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To find out more why not book a CPD or join us at one of our training days at our premises in Surrey?

annar@scotscape.net www.scotscapelivingwalls.net

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AUTOPA launches the UK's first ever Illuminated Sheffield Cycle Stand

AUTOPA Limited is proud to announce the launch of its new Illuminated Sheffield Cycle Stand. Bringing cycle stands into the 21st Century, this cycle stand is the first of its kind in the UK marketplace. Powered by an energy efficient 1.2w LED, this stand aims to bring an end to a common cycling problem; how to lock and unlock your bicycle lock in the dark. Cycling is big business in the UK, and it is important that our cycle parking areas reflect the investment that is being poured into other areas of cycling infrastructure. Overhead illumination is excellent for lighting a wide area, however, when a cyclist is bent over the stand to unlock their bike, they create a shadow where they need the light most. This product launch rectifies this. The Illuminated Cycle Stand from AUTOPA Limited represents the first major redevelopment of the Sheffield Cycle Stand since its introduction in the 1990s. The "Sheffield style" cycle stand is one of the country's most recognisable cycle stands, and a common feature in every public space across the country. The Sheffield Cycle Stand allows the bicycle wheel and frame to be locked to the stand for added security. Fully scalable, the number of stands that can be installed is only limited by the size of your site. The stand is IP64 rated and the LED has an estimated lifespan of 100,000 hours, and is weather and vandal proof.

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