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Cover image courtesy of INSIDE World Festival of Interiors and SANJAY PURI ARCHITECTS, showing its project Aurga in Mumbai, India. See page 7 for more

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RESIDENTIAL PROJECT

bptw complete unique Hackney residential refurbishment project

Recently completed, Shakespeare House is a unique, four storey residential conversion in Lyme Grove, Hackney. Through an inventive and rigorously executed refurbishment process 18 high quality modern apartments have been created, transforming the original 1930s building into a desirable place to live.

Award-winning architects bptw partnership were appointed by Islington and Shoreditch Housing Association to regenerate Shakespeare House, which was in a poor condition and suffered from a range of issues including the lack of amenity space, inadequate living areas, small kitchens and bathrooms, and a number of security issues in and around the block.

Bringing the development up to current standards, the building has been reconfigured to create generous, modernised internal layouts which maximise space and access for residents.

Meeting CfSH targets, the building has been completely externally insulated to improve energy efficiency, and new energy saving fixtures and fittings have been installed to help reduce heating bills for residents.

The dated external envelope has been overclad with an attractive Corium brick cladding system, which is complemented by deep reveals and window surrounds to provide a distinct and uniform appearance. These elements work together to define the whole development, giving it a contemporary feel.

A fifth storey has been added to



Shakespeare House to maximise space, while at the same time enhancing the building's modern appearance. This new top floor has been sensitively designed with consideration to neighbouring properties and is set back to prevent overlooking and to avoid right to light issues. Utilising modern methods of construction, the fifth storey has been constructed using a lightweight steel frame. In being set back from the rest of the development, and with a different material treatment, this additional storey adds visual variation.

Addressing previous concerns regarding safety, the building has been brought up to Secured by Design standards.

Underused surrounding outdoor space and an overgrown courtyard area have been adapted and attractively

landscaped with ecological planting to provide easily maintained, private communal gardens for residents and a play space for children which is overlooked by the new window and balcony spaces.

The retention and conversion of the existing building has offered a more environmentally sustainable and community friendly solution to redevelopment. Shakespeare House is an inventive conversion project which will have a positive impact on its surroundings and contribute to the regeneration of the surrounding area. As well as significantly improving the quality of living for residents, the development is an exemplar of the high architectural quality that can be achieved through the retention of existing buildings.

RIBA AWARD

RIBA announces President's Awards for Research 2014 shortlists

RIBA has announced the shortlists for the four categories of the President's Awards for Research 2014. The awards promote and champion high-quality research and encourage its dissemination to the profession; they raise the profile of those architects and academics engaged in research, and

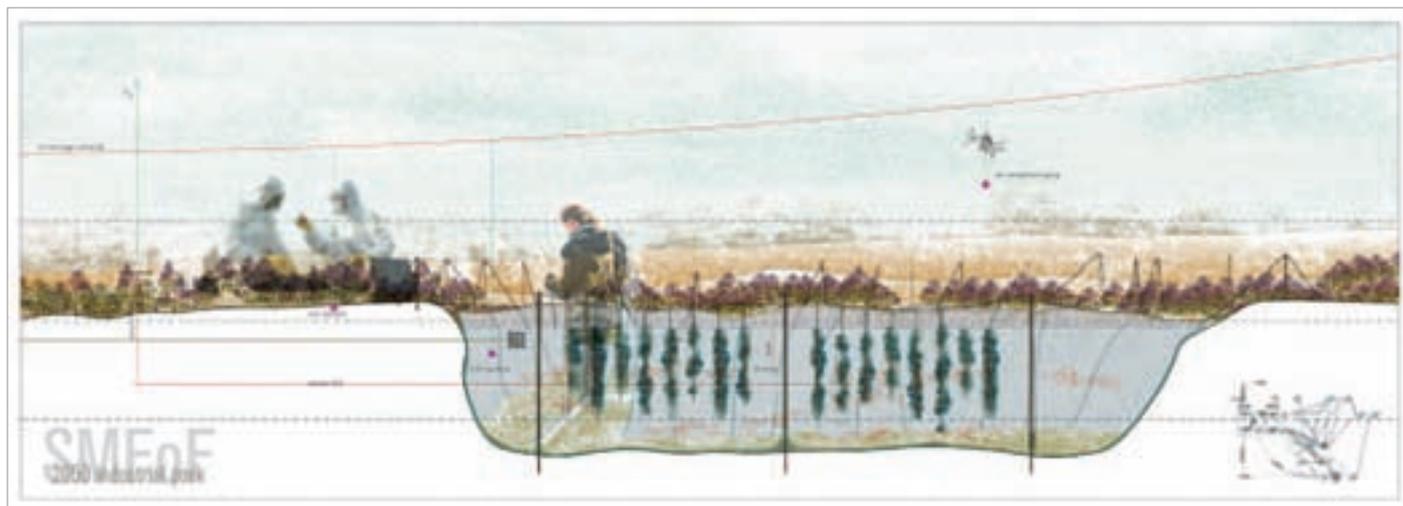
highlight the need for research across the profession to foster innovation and strategic thinking.

Visit www.architectsdatafile.co.uk and enter the reference number 96794 to view the full shortlist.

The winners will be announced in October.

AWARD

The Architectural Association Foster + Partners Prize 2014



The Architectural Association and Foster + Partners are pleased to announce the award of the 2014 Foster + Partners Prize, which is presented annually to the AA Diploma student whose portfolio best addresses the themes of sustainability and infrastructure. The recipient is selected jointly by the AA and Foster + Partners at the end of each academic year.

This year's prize has been awarded to Ioana Giurgiu, of Diploma Unit 18, for her project *SMFoF. Uncovering the factory in nature*. Through an exploration

of a Mediterranean salt marsh, which is being rescued from its current polluted and degraded state, the proposal aims to introduce a new understanding of nature and its inherent processes. Rather than attempting to emulate nature, the project focuses on understanding the potential uses of naturally occurring processes. The study examines the way in which the marsh performs the role of a factory, as natural phenomena suggest potential new ways of fabrication.

Armstrong Yakubu of Foster + Partners said: "Although Ioana has

explored the typology of the salt marsh for the purposes of this study, her approach has wider applicability for a range of ecological sites – this is one of the aspects that most impressed the jury panel. There are many examples of architecture replicating natural growth patterns or utilising the inherent efficiency of natural forms. However, the idea that natural processes can be understood and potentially utilised in an industrial base is an interesting way of creating a new, more harmonious model of production."



Scan the code with your mobile phone using QR code software to view the latest news from www.architectsdatafile.co.uk

RETAIL PROJECT

French shopping centre awarded highest ever BREEAM In-Use score

Unibail-Rodamco was presented with a BREEAM In-Use International certificate for the Toison d'Or shopping centre in Dijon, at an award ceremony in June. Toison d'Or gained the coveted Excellent rating for the building asset (Part 1 of the scheme) and an exemplary Outstanding rating for building management (Part 2), achieving the highest ever score awarded under BREEAM In-Use Part 2.

The BREEAM assessment followed a major project to refurbish and extend Toison d'Or to provide 72,000 sq m for shops, restaurants and services. The project incorporated

green leases for tenants, strong co-operation with the city on travel plans, a new tramway connection to the main entrance, optimised energy reduction, and a lighting approach to maximise natural lighting and deliver an attractive ambiance for staff and visitors.

Unibail-Rodamco's Christophe Garot said: "The BREEAM approach allows us to integrate and stimulate our tenants and maintenance suppliers to be sure that each technical device – for lighting, ventilation, heating and cooling etc. – will be properly maintained and operated 365 days per year."

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news bytes

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

British Museum unveils World Conservation and Exhibition Centre...
Ref: 33487

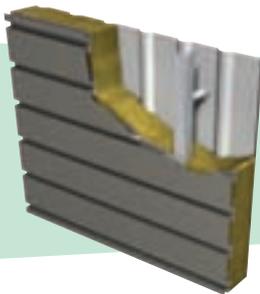
Epée de Bois nursery, designed by h2o architectes, opens in Paris...
Ref: 86798

Four Benoy projects shortlisted for 2014 World Architecture Festival...
Ref: 29748

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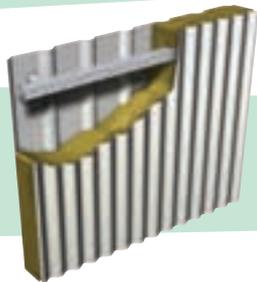


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AWARD

Shortlist announced for World Interior of the Year 2014

INSIDE World Festival of Interiors has announced the nominees that will go head-to-head to be crowned World Interior of the Year 2014, in a ceremony at the Marina Bay Sands Hotel, Singapore in October. Comprising the most original and exciting interiors from the last 12 months, this year's awards consist of 60 nominations from 21 countries across nine diverse categories.

This year's contest includes a wide range of different types of interiors, from schools to offices and airports to tents. London-based MAKE Architects is nominated in the Retail category for its art deco redesign of the famous Harrods escalator hall and its delicate restoration of its 1920s staircase. In the same category OpenAir Studio have submitted its Just Cavalli concept store which sees walls, shelving and installations crafted from rusted metal, inspired by the brand identity.

In the year of the World Cup, the shortlist includes two Brazilian nominations. In the Bars and Restaurants category the redevelopment of the famous Bar Riviera, Sao Paulo has been nominated. Known as a left wing hotspot during the military regimes of the 1960s and 70s, it has now been turned into one of the area's premier clubs with distinctive glass brick walls and a prominent sculptural staircase. Also in Sao Paulo, the Cultura Bookstore provides a 21st century retail experience with a large central area encased by books, allowing customers to read, chat and even watch a lecture or performance.

A common theme of free-flow work environments, employee interaction and 'breakout zones' is seen across the office and education categories. In the Architecture Factory in Cork, Ireland, disused shipping containers have been converted into open studios for an attractive and cost effective method of workplace design; the new office for tech company Sahibinden.com sees work and play combine with an open-plan office, running track and basketball court; and Haptic Architects have converted a bunker that lies deep within the site of the new Arkwright offices into an executive lounge and private working area called 'the James Bond room'.

Re-use and redesign proves to be key to the work of this year's submissions, as architects and designers develop innovative responses to a lack of space for new build projects. Adapting existing buildings seems to be a natural progression for the interior design profession. Redesign projects include the new and improved design of the famous Christopher's Restaurant in Covent Garden, London; the transformation of the private residence of the great Japanese painter Seiho Takeuchi into a music and banquet hall; and the Camper Showroom in Shanghai which sees Neri&Hu design a two-storey home inside an old warehouse.

Other nominations include the redevelopment of the former USSR Writers Union that has been transformed into a new restaurant in Moscow and features a grand chandelier



rumoured to be a gift from Stalin during the 1930s; a pink neon Willy Wonka-style patisserie designed by junior architects from Elenberg Fraser's trainee programme for the famous chef Adriano Zumbo; and the regional terminal for Christchurch Airport in New Zealand, with a structure derived from the form of the Southern Alps.

Shortlisted designers including CRAB Studio, Woods Bagot, mk27, Clive Wilkinson Architects and Joyce Wang Studio will be pitched against one another in front of a distinguished panel of judges in this unique awards competition. Winner of World Interior of the Year 2013 for his Carrer Avinyo apartment – David Kohn has joined the judging panel alongside the likes of Joey Ho and Pernilla Ohrstedt. Nigel Coates, associate director of the Festival, will act as compare for the superjury.

David Kohn comments: "It was a thrilling experience to be in Singapore for the festival and was of course even better to win. The festival offers a chance to network with designers, businesses and potential clients from around the world and forms a global community of design and architecture for the entire three days. It was great to be recognised by my peers and exciting to see our project published internationally."

All nominees will compete in the form of live presentations and debates during the INSIDE World Festival of Interiors from 1-3 October at the Marina Bay Sands in Singapore.

Visit www.architectsdatafile.co.uk and enter the reference number 68187 for the full shortlist.

Cover image showing one of the nominations for World Interior of the Year 2014:

Category: Bars & Restaurants
Architect/Designer:
SANJAY PURI ARCHITECTS
Project: Auriga
Location: Mumbai, India

'MAKE Architects is nominated in the Retail category for its art deco redesign of the famous Harrods escalator hall'





Plans afoot at the checkout

By Paul Graham, founder of Planning Pipe, provider of cost effective, bespoke construction leads (www.planningpipe.co.uk)

news bytes

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

SPARK envisions a sustainable floating hawker centre for Singapore...
Ref: 70317

Art deco building returning to its stylish roots...
Ref: 24220

BDP wins Cooperas Hill competition...
Ref: 17677

End of cheap schools, reform of the Green Belt and liberation of underperforming english cities must all feature in next government's hit list, says the RIBA...
Ref: 93593

Extraordinary baroque memorial in Somerset church wins SPAB Betjeman Award for outstanding repair...
Ref: 47537

HLM wins major £250 million defence project...
Ref: 37195

Book: A clash of cultures: applying modern planning systems in the Middle East by Nurit Alfasi...
Ref: 62617

Recent figures for UK supermarket growth and profits have painted a portrait of the sector undergoing substantial challenges and change. The established big four are struggling to deal with the new discounters Aldi and Lidl. At the same time consumers appear to be falling back in love with the convenience store, rebranded as the mini-supermarket.

The current players have very mixed fortunes. Tesco is seen by many to be too dominant, Sainsbury's is too similar to Tesco. Asda – with its huge superstores – seems a little out of vogue yet extremely resilient; the Co-op, with over 3,000 smaller stores, is well placed but beset by internal problems. Aldi and Lidl are promising growth and together with Waitrose have secured strong niche brands, albeit at opposite ends of the market. Morrisons are starting to appear a little lost in the middle.

Planning Pipe examined 220 planning applications submitted by the largest supermarket groups over the last 12 months, to provide a snapshot of their current positions and a guide to their future confidence and ambition.

Aldi and Lidl – each starting with around four per cent of the current UK supermarket sector – demonstrate the biggest ambition for future growth. Between them they have sponsored just over half of the 107 total new supermarkets submitted for planning approval throughout the UK in the last 12 months. Aldi have stated publicly they want to grow to 1,500 stores by 2021 while Lidl have ambitions for around 1,000 outlets (Tesco by comparison have currently around 3,150 stores).

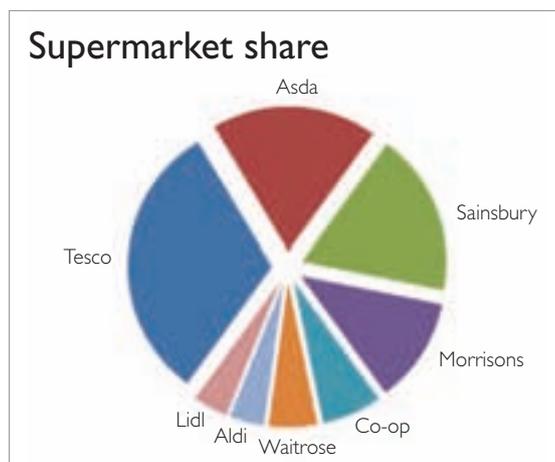
As established players with significantly larger footprints, Tesco and Sainsbury's are refocusing around existing estate refurbishment and smaller stores. On the renewal side, both are planning to expand facilities for easy grocery collection of

online orders, i.e. Click and Collect. Tesco is also planning more retail pods to provide key cutting, shoe repairs and dry cleaning adjoining many of their existing outlets. Waitrose is planning similar adjoining pods – this time selling flowers. More significantly for the construction industry, Tesco with 'Express', Sainsbury's with 'Local' and Morrisons with 'M' have stated plans to open 350 new convenience stores in 2014. The big four all believe to get bigger (or even stand still) they must get smaller – invariably under 280 sq m to avoid Sunday licensing laws. Morrisons – at least on this analysis – may struggle to maintain this kind of momentum.

This change in focus for the big retailers has not been without cost – particularly to Tesco who was forced to write down the value of its property portfolio this year by over £800 million. But a much bigger cost is predicted by some for many independent retailers. Once fearing death by superstore, the independents are now faced by the big beasts of retail (with the exception perhaps of Asda) directly targeting similarly sized operations on their doorsteps. Their fears are shared by some communities, particularly in villages, who are in many cases objecting in significant numbers to the proliferation of the big supermarket brands in their high streets.

Objections to planning applications have historically delayed rather than thwarted well-founded and well-funded supermarket expansion plans. Lidl and Aldi are not and will not be immune from these issues – particularly given the scale of their planned new store openings. It remains to be seen just how big a brand focused on price discounting can become – and how well the incumbents in this highly competitive market place will react.

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Source: IDG



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PRIZE

Architecture students receive cash prize for town plans



Architecture students at the University of Portsmouth have been awarded £500 each by local business and landowners, BST Properties Limited, for their work on a proposed new town near Fareham, Hampshire.

As part of their masters course, the seven students have been working on theoretical plans for Welborne, a proposed new 6,500 home town. Representatives from BST, the landowners of the southern half of the site, visited the students earlier in the year and were so impressed with the plans that they decided to return with some prize money.

The students presented their detailed ideas and plans surrounded by models and designs of both their group work and individual buildings. Their plans concentrated heavily on the agricultural aspect of the area, and on sustainability and healthy living. There was a great emphasis on renewable energy, public green spaces and the creation of an identity based around a central market square.



FESTIVAL

LFA 2014 – 30 days putting Architecture on the agenda

"I'm hugely enthusiastic about good design and year on year the London Festival of Architecture continues to surpass its previous successes. The Festival makes an enormous contribution to London's profile by promoting the talent, output and success of our architectural sector; and showcasing the innovation of London's cultural sector through an outstanding partner programme that includes many of our leading institutions. The debate and engagement the festival creates helps shape this great city."
– The Mayor of London, Boris Johnson

As the London Festival of Architecture (LFA 2014) draws to a close, we celebrate its success and look ahead to 2015, which will build on the incredible momentum of this year.

Over 200 events across London were enjoyed by thousands of Londoners and visitors alike, in a city-wide celebration of architectural practice, discussion and debate. Through the central theme of CAPITAL, LFA 2014 explored London's dynamism and architectural and design drivers, with a broad examination of its role and the ways in which its cultural, human, economic, natural, social and digital capital shape London's architecture and public spaces.

Headline debates tackled issues critical to the future evolution of the city, such as London's vertical development, the housing crisis and the capital's high streets – notably the practical steps that needed to be taken to reinvigorate and boost growth.

Other highlights included Will Self's talk *On Architecture*, and Thomas Heatherwick and Dan Pearson's discussion on the Garden Bridge with Joanna Lumley, among many other events.

The key role that architecture plays in urban, cultural and social development, and its recognition as an instrumental force at national and

international level, is at the core of the annual festival.

Looking forward to 2015, the London Festival of Architecture is delighted to pick up the challenge set out in *The Farrell Review* to develop a high-level international conference and exhibition. This will embrace the review's call for a more international approach to promoting excellence in British architecture and the built environment, and to recognise its global impact on the national economy. Still at concept stage, the conference will bring together international architects, engineers, designers and city-makers to discuss and respond to global issues and opportunities.

Patricia Brown, chair of London Festival of Architecture, said: "This year's success has shown the appetite to use the festival as a platform to engage with some difficult issues for London's future, as well as take a playful and oblique look at our magnificent city. At a time when the world is looking for innovative thinking to solve problems in the urban realm, London has a key role to play as an international centre of architectural practice and creativity.

"The festival is committed to highlighting this role and ensuring that architecture is firmly placed at the forefront of the agenda."

news bytes

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

Designs unveiled for landmark RMK headquarters in Yekaterinburg...
Ref: 64343

Landmark sustainable construction nears completion at Newcastle Science Central...
Ref: 17556

Workspace's Faircharm Creative Quarter wins New London Award in recognition of its pioneering design and architecture...
Ref: 58471

Atkins reveals design for Asia Aerospace City in Malaysia...
Ref: 54208

A bright green future for the World Cup 2018 in Russia...
Ref: 42985

COMMENT

'Increasingly, I think you will see architects working for contractors on design and build projects'

Paul Chandler



Greater collaboration needed between architects and contractors

Projects could be delivered more effectively if architects and contractors took a more collaborative approach to design and build projects, helping to assess potential risks earlier. It would help if architects had a better understanding of contractors' needs and business, according to Skanska UK's Executive Vice President Paul Chandler, in a video interview with the RIBA.¹

The RIBA is talking with its construction clients, including contractors, to find out what lessons can be learned and passed on to its members. Contractors form a significant part of architects'

client base, accounting for about a fifth of their overall business according to the RIBA's benchmarking survey in 2013.

Skanska took part in a round-table discussion hosted by the RIBA in January, with a number of other contractors. A number of video interviews have also been filmed as part of the process. These have been placed on the RIBA website, with the aim of sharing insight and expertise across the profession.

Paul Chandler said: "Architects can add real value to a project with the right approach. Increasingly, I think you will see architects working for contractors

on design and build projects."

Nigel Ostime, chair of the RIBA Client Liaison Group said: "We welcome the involvement of the UK's major contractors in this initiative which aims to provide advice to the architectural profession on working more collaboratively, providing greater value and efficiency and helping to meet the objectives of the Government Construction Strategy (2011)."

1. The Paul Chandler video can be viewed at: www.architecture.com/RIBA/Professionalsupport/RIBAForclients/Contractorclients.aspx

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COMMENT

Infrastructure Bill amendment lays foundation for the delivery of new garden cities

Housing and planning charity the Town & Country Planning Association (TCPA) has welcomed a proposed amendment to the Infrastructure Bill which lays the foundation for the delivery of high quality, new communities.

The new clause, tabled by Lord Davies of Oldham and Lord McKenzie of Luton, stems from the TCPA's publication *New Towns Act 2015*, and defines the objective of development corporations as securing the long term sustainable development of new communities.

TCPA Chief Executive Kate Henderson said: "Bringing forward a new generation of garden cities has cross-party support as part of the solution to tackling Britain's chronic housing crisis.

"However, if our politicians are serious about delivering high quality, beautiful and inclusive new garden cities then we must ensure that they are delivered with strong social objectives, bringing about positive impacts on local people and communities.

"Existing New Towns legislation is sound in its approach to delivering large-scale, new communities but needs modernisation to make it fit for purpose in today's policy landscape. That is why we strongly support the amendment to the Infrastructure Bill, which provides an opportunity to make existing New Town legislation fit for purpose in the 21st century, and creates an essential foundation for modern day planning to deliver the great homes and communities that the nation deserves."

The amendment sets out eight ways in which new town development corporations can achieve sustainable new communities, including through contributing to the cultural and artistic development of the town, promoting high quality and inclusive design and ensuring open, participative and accountable decision making. The amendment also states that development corporations should contribute to the mitigation and adaptation of climate change measures consistent with the objectives of the Climate Change Act 2008.

Kate Henderson added: "The planning system originally grew out of a powerful recognition that the places in which we live have a huge impact on the quality of our lives – and a collective view that, as a society, we should aspire to create places in which everyone can thrive. It is this foundation of planning – creating high quality places for people – that this amendment to the Infrastructure Bill is seeking to address. We hope the amendment gains cross-party support."



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enq. 108

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enq. 109

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Sika-Trocal is pleased to announce the new RIBA-approved CPD entitled *Effective Design of Single Ply Roof Systems*. This CPD presentation aims to assist both specifiers and architects when designing and selecting single ply roofing solutions.

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www.sikatrocal.co.uk

enq. 110

CPD GUIDES FROM MITSUBISHI ELECTRIC



Mitsubishi Electric has released two new CPD-certified guides covering the London Plan and Part L of the Building Regulations, designed to enhance the knowledge of customers and provide a view of the key issues facing the heating industry. The London Plan is a comprehensive vision of London's objectives for its economy, environmental performance, transport and social structure. The Plan sets out an integrated economic, environmental, transport and social framework for the development of the capital to 2031. The CPD guide explains the objectives, the impact, approaches to heating and energy generation and the potential of heat pumps for the plan. It also contains a case study of an application that uses the River Thames to heat its building stock. Part L of the Building Regulations deals with the conservation of fuel and power in domestic and commercial buildings. The legislation covers new-build and refurbishment projects and is a section of the Building Regulations that has been updated regularly since 2002, and in April 2014 the latest version, which is known as Part L (2013), came into force. It runs through the background of Part L, how compliance is shown and the obligation to install low carbon technologies. It then runs through other European legislation that potentially affects the application of heat pumps.

01707 282880
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enq. 111

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Wanted: architect to design new £40 million Thames bridge

An international competition to design a new £40 million bridge across the Thames could get underway later this year under plans approved on 7 July by Wandsworth Council.

The new pedestrian and cycle crossing would connect the rapidly developing Nine Elms on the South Bank district with the historic Pimlico embankment to the north.

Its exact location is yet to be confirmed but the preferred options are close to the site of the new US Embassy.

The bridge is part of a £2 billion infrastructure package transforming Nine Elms into a new Zone One transport hub complete with two new Northern Line tube stops.

Ravi Govindia, leader of Wandsworth Council and co-chair of the Nine Elms Vauxhall Partnership, said: "This will be a new bridge at the centre of the world's greatest city so the design standard has to be exceptional. It will be a dream commission for the winning architect but to succeed they will have to meet some very unique challenges and expectations.

"The design will have to inspire and win the hearts of Londoners who are tremendously proud of their river and its heritage. It must work alongside the cutting edge modern architecture of Nine Elms as well as the elegant buildings on the north bank. There will be engineering feats to overcome and the landing points on both sides must

integrate sensitively and effectively with their surroundings.

"This bridge has the potential to become a powerful icon for the revival of Nine Elms, which will help us bring new life, jobs and homes to this underused part of London. It would also help connect communities north of the river with these new opportunities and create a valuable transport link for our growing city."

The 480-acre Nine Elms on the South Bank opportunity area is well into the construction phase and on course to create 3,000 affordable homes, around 45,000 jobs and billions in growth.

The area's other transport upgrades includes two new Tube stops, two river-bus piers, remodelled streets based on



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cycle friendly, Dutch designs and major upgrades to three existing rail stations including the Vauxhall interchange.

The bridge and other transport improvements will be funded from private Nine Elms developments and from growth in local business rates income, which is being pumped back into the area.

Once a design is in place Wandsworth Council will explore further funding options which could see the bridge built sooner. This could include sponsorship.

The plan for the design competition comes after a TfL feasibility study confirmed the bridge would cost around £40 million and carry around 9,000 walkers and 9,000 cyclists a day – proving a car free alternative to Vauxhall or Chelsea Bridge.

Plans for the competition will now be finalised and the official launch could take place in winter 2014.

A shortlist would be selected in early 2015 and the winning design announced in spring the same year. A programme of public engagement would run alongside the competition so local communities can help shape the proposals as they develop.

The final designs would need planning approval from Wandsworth and Westminster Councils, and sign off from the Mayor.

The new river crossing is part of a vast network of new public space which runs through the 480-acre Nine Elms district. This includes a linear park, public squares, a new Thames riverside path and a whole town centre at Battersea Power Station.

RIBA COMPETITION

Lancaster University urban design competition shortlist

RIBA, on behalf of Lancaster University, is delighted to announce the shortlist for the design competition to rejuvenate the campus' principal walkway, known as The Spine.

Visit www.architectsdatafile.co.uk and enter the reference number 65486 to view the full shortlist.

The shortlisted teams will now work on their design proposals and will be invited to present these to the judging panel in September 2014.



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editor's focus

Quayside Conservatories

Quayside Conservatories is currently in discussions with Leitz Tooling regarding installing its new 'ThermoTech Window System' to manufacture 'A' rated thermal stormproof, flush casement and traditional wood windows. The system is complete, compliant and scalable for the manufacture of high quality 'A' rated thermal windows which reduce waste and sanding as well as increasing performance and finish.

enq. 114



Origin

A new range of aluminium windows has been launched by Origin, a leading UK manufacturer of bespoke aluminium bi-folding doors, offering premium quality aluminium flush casement windows. The Origin Window has been designed and engineered at the company's High Wycombe factory, with the same superiority as its doors, making them a perfect match for any modern or period property build. Available in a range of colours, the aluminium window frames offer the right combination of strength and weight, allowing for narrow sight-lines, while providing superior thermal performance and improved acoustic dampening.

enq. 115

Lonza Wood Protection

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

enq. 116



Schiedel Chimney Systems

Schiedel has launched the ABSOLUT XPert Chimney System with an Integrated Insulated Combustion Air Shaft. The XPert Chimney System, is state-of-the-art and has just scooped the '2014 Fluing and Ventilation Product of the Year' from the Hearth & Home Trade Show. Designed for the new generation of air-tight homes, Schiedel ABSOLUT XPert is the first Passivhaus certified chimney system in the world. Air tightness is built into the system. David Wright, marketing manager said: "Understandably we are absolutely delighted to have already received the industry's highest accolade at our launch event."

enq. 117



Havwoods

Havwoods timber product range, long recognised for its quality and durability, is continually developing finishes for applications limited only by the imagination. Reclaimed flooring has long been a favourite but the ever evolving Genuine Reclaimed solid and engineered, flooring and wall cladding products are fanning the flames of imagination and the recent addition of the new solid Painted Graphic range offers planks, chevron and herringbone timber in painted finishes. The more traditional reclaimed range offers timber from barns, quays and docks and benefits include random length and width boards to add to the truly historic image.

enq. 119

Benchmark Design

Benchmark Design Limited, established in 1995, has the express aim of creating elegant street furniture that is contemporary, aesthetic and robust yet flexible enough in its concept to let urban designers configure in their own distinct and creative style. Its solution is Centerline, a simple tubular steel system that formed the basis of a comprehensive range including seating, litterbins, picnic sets and planters. Benchmark street furniture is extensively specified for projects throughout the UK. Product development is continuous so the best standards are achieved at a competitive cost.

enq. 118

Polarwall

Polarwall Ltd is one of the most innovative Insulating Concrete Formwork (ICF) suppliers in the UK. Its focused approach in delivering the very best products and services to the construction industry has helped many companies and individuals. For too long, the industry has relied on cement blocks to construct the superstructure for new build development. However, pressures from lack of skilled labour, rising build costs and the inability to cope with ever-increasing technical constraints have forced the industry to change. Polarwall is a product that can meet these challenges head on and offer a cost-effective alternative.

enq. 120



Pop Up Power Supplies

Pop Up Power supply retractable service units that provide electricity, water and air supply to public spaces. Its projects include installations for markets, heritage, parks, town centres, universities and sports stadiums. Due to their retractable nature, units can be used in a variety of places that require subtlety and the ability to disappear when not required. A series of standard products are available as well as bespoke units with recessed tops that can accommodate different paving. Pop Up Power has worked with clients up and down the country, providing efficient, sympathetic utility solutions in busy public areas.

enq. 121

Canopies UK

Canopies UK is a leading UK manufacturer and installer of outdoor canopy systems. It has been established for over 25 years and in that time it has supplied thousands of canopy systems to both commercial and domestic properties. Canopies UK believe in making the most of your outdoor space and have a portfolio of products that do just that. Whether it is a canopy for a school, a walkway at a leisure centre, car park bays or a contract for multiple door canopies within a social housing refurbishment plan, it has the experience and knowledge to deliver on budget and on schedule. Canopies UK offer a one stop shop – from design, manufacture, install and after service, nothing is outsourced.

enq. 122

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enq. 123

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www.rocalondongallery.com

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designmuseum.org/exhibitions

G M Cantacuzino:

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 Until 29 August, London
www.icr-london.co.uk

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Until 7 September, Sheffield
www.architecture.com/whatson

Dream, Draw, Work: Architectural Drawings by Norman Shaw RA

Until 26 October, London
www.royalacademy.org.uk/exhibition/26

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Until 2 November, London
www.museumoflondon.org.uk/docklands/whats-on

Venice Architecture Biennale

Until 23 November, Venice
www.labiennale.org/en/architecture/

Ordinary Beauty:

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www.worldarchitecturefestival.com

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Something old and something new

The new University of Cumbria is not lacking in character and history – and architects are helping it get the message across, as James Pringle reports

‘Critical repairs and refurbishing, and reconfiguring key buildings into a library and student hub creating the heart of the campus’

The University of Cumbria may be a newcomer to British higher education, but it has a distinguished pedigree and an impressive array of locations. It is established in Carlisle, Lancaster and Tower Hamlets in London, as well as in Ambleside.

A major transformation is under way at the latter site, which is in the Lake District National Park. John McAslan + Partners is architect, lead consultant and landscape architect.

The £3.8 million first phase of the practice’s masterplan covered critical repairs and refurbishing, and reconfiguring key buildings into a library and student hub creating the heart of the campus. It also involved substantial landscaping that improves linkages and creates new external spaces. The completed work was handed over to the university in January.

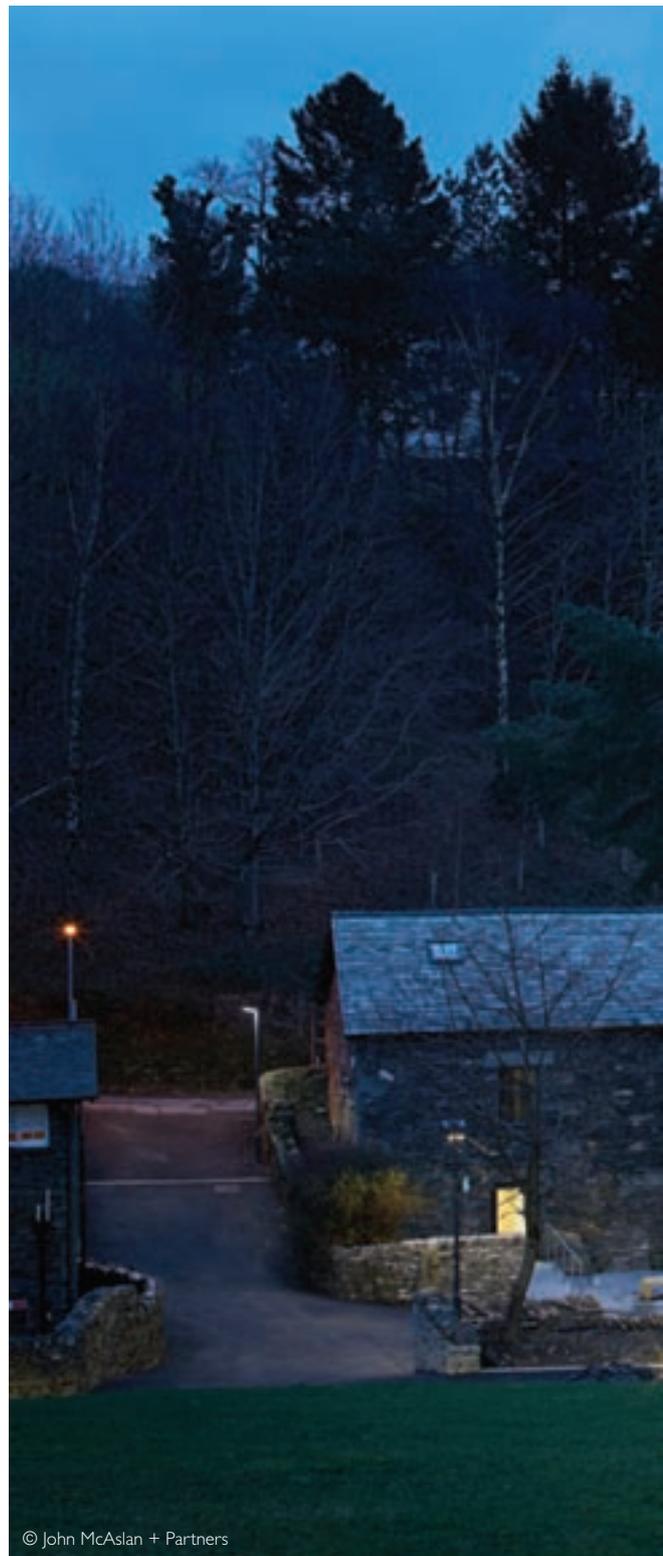
Phase Two includes external renovation of Scale How, the Grade II listed house built in the late 1820s and owned originally by Dorothy Wordsworth, cousin of poet William Wordsworth. It was bought in the 1890s by educationist Charlotte Mason, who ran a school for governesses on the site until her death in 1923, and it continued until the 1950s. The local council bought the property and set up a teacher training facility known as Charlotte Mason College.

The premises became briefly part of Lancaster University before being used for teacher training by Lancaster-based St Martin’s College.

The University of Cumbria was established in 2007 when St Martin’s amalgamated with the Cumbria Institute of Arts and the Cumbrian campuses of the University of Central Lancashire.

Continued on page 24...

The campus is a welcoming centre in the Lake District National Park



© John McAslan + Partners



‘The idea was to create a central hub, with a library, cafe and flexible offices for services including student support finance and residential accommodation’

Paul Hughes,
McAslan project leader

Windows boarded up before the project begins



© John McAslan + Partners

Initially the new university mothballed the Ambleside campus, which proved controversial with local residents as it signalled the end of more than 100 years of teacher training on the site.

The university wanted a significant outdoor and forestry component for its base in the National Park. In 2012 it sought the advice of John McAslan + Partners in reopening the campus. The plan was to close a campus in Newton Rigg and to move the National School of Forestry and a number of applied science courses, outdoor studies, and business and enterprise courses to the Ambleside campus.

The new LiSS (Library and Student Services) Building is located in a traditional Cumbrian ‘bank barn’ first constructed in 1929. Initially it was used as an assembly hall and gym for Charlotte Mason’s school for governesses, and more recently as a bar and student union with classrooms on the upper floor.

The place was never actually used as a barn. A ‘bank barn’ is simply a building set into a slope or bank, with the upper floor

accessed directly from ground level, while the lower floor is accessed at ground level from the opposite side. The Ambleside site includes a number of such structures, but the Barn Theatre building has been modified over the years.

McAslan project leader Paul Hughes tells *ADF*: “Originally most of it would have been at double-height volume. Sometime between the original construction and our project, someone inserted a slab throughout the building to create clearly defined ground and first floors.”

McAslan + Partners found the property in a sorry state, he adds. “The windows were boarded up for security, and internally it looked as though it had been hacked about quite a lot, with the insertion of the floor, random bits of partitions, storage cupboards here and there, and upstairs the teaching rooms were looking particularly tired.”

With the masterplan considering potential reuse of all existing buildings, the Barn Theatre was clearly the most suitable for accommodating the services required. “The Barn Theatre and its courtyard sit midway between the southern entrance



© John McAslan + Partners



© University of Cumbria

Above: The campus hub includes a café
Left: The bank barn in its days as a gym

and the building at the northern end of the site,” says Hughes. “The idea was to create a central hub, with a library, café and flexible offices for services including student support finance and residential accommodation.”

The library is on the first floor, above the offices, catering facilities and social working areas where students can work in groups. A coffee shop for hot drinks and snacks is in a new mono-pitch extension. The extension draws on local vernacular in terms of its materials, but is an obvious modern addition to the original building, Hughes points out. It is clad in stained black timber, striking a contrast with the grey Cumbrian stone of the established structure.

In the existing building the main change on the first floor has been to clear out the series of cellular spaces of former classrooms and to remove the ceilings that had been created, so as to expose the timber roof structure.

“We wanted to open out the whole first floor into one big volume with the expressed roof pitch where you can see the original king post trusses,” says Hughes. “That’s the main

library space, where there are now books, reading areas and IT docking points.”

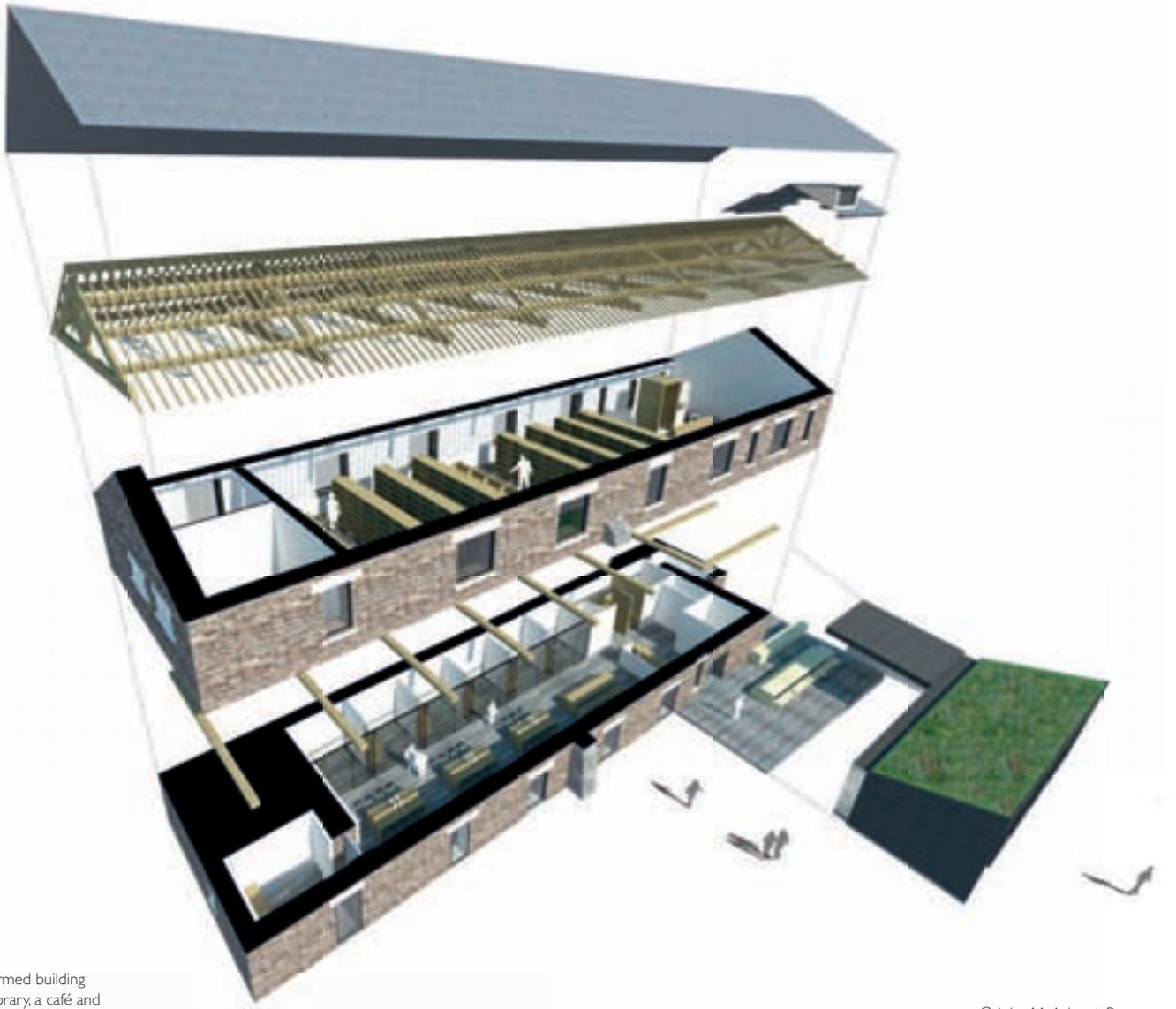
The reconfiguration, a contemporary interpretation of Cumbrian vernacular, respects the original stone fabric of the building, while enhancing the character and quality of the space.

“It’s the practice’s ethos to work with the best of the existing buildings where they’re available. We aim to use modern interventions, to reveal the age and nature of existing buildings, constructing buildings of our time that relate to them,” says Hughes.

“We haven’t formed any new openings in the 1920s building, which was full of the single-glazed, steel-framed Crittall windows. We’ve replaced them with double-glazed

Continued overleaf..

**BUILDING
PROJECTS**



The transformed building features a library, a café and flexible offices

© John McAslan + Partners

‘Harmony of materials has been a theme throughout’



© John McAslan + Partners



© John McAslan + Partners



© John McAslan + Partners

Campus assets include a modern and well-stocked library

aluminium-framed windows that help with energy efficiency and to improve the U-values. They are modern-looking within the traditional framework of the building: with black PPC (polyester powder coating) aluminum on the outside and timber framing internally, complementing the internal material palette.”

The generous glazing provides views out onto a courtyard – one of the new landscape spaces created as part of the campus redevelopment – and beyond, over the site’s mature landscape.

Modern energy-efficient lighting has been installed throughout the building. The mono-pitch extension has a green roof, as part of a campus emphasis on biodiversity. Much of the project has used natural or recyclable materials.

“The building is an essay in timber,” says Hughes. “It has a structural glulam frame, and stained timber cladding on the exterior. The internal walls are generally formed from SIPs

(structural insulated timber panels) with American white oak decorative linings and there is complementary oak-veneered furniture.

“Wood is the consistent material throughout this new intervention, and that emphasis on material is carried through into the other interventions we’ve made in the retained 1920s building.

“The furniture is bespoke designed and made, and nearly all oak-veneered. It was made by the main contractor as part of the contract works.”

Harmony of materials has been a theme throughout. Another example is the new stone floor, which is compatible with the historic building and brings coherence to the whole phase of the scheme. The granite covering the entire ground floor was also used for paving the courtyard.

Phase One has greatly improved access and services infrastructure across the campus, and all construction work was sequenced to allow the university continuity of service.

Despite the constraints of working within the National Park, McAslan achieved Planning and Conservation Area consent for all Phase One works. Close collaboration with the Lake District National Park Authority was critical.

“The LDNPA were very particular about the materials,” says Hughes. “We had to discuss them in depth and provide samples for approval. It was all managed very well, with planning consultants Deloitte assisting with the process.

“A key aspect of our masterplan has been how we can weave a route the length of the campus, through a series of landscape interventions to help access and way-finding.”

Inclusivity for the university and the wider community has

Continued overleaf..

‘A key aspect of our masterplan has been how we can weave a route the length of the campus, through a series of landscape interventions to help access and way-finding’

Paul Hughes,
McAslan project leader

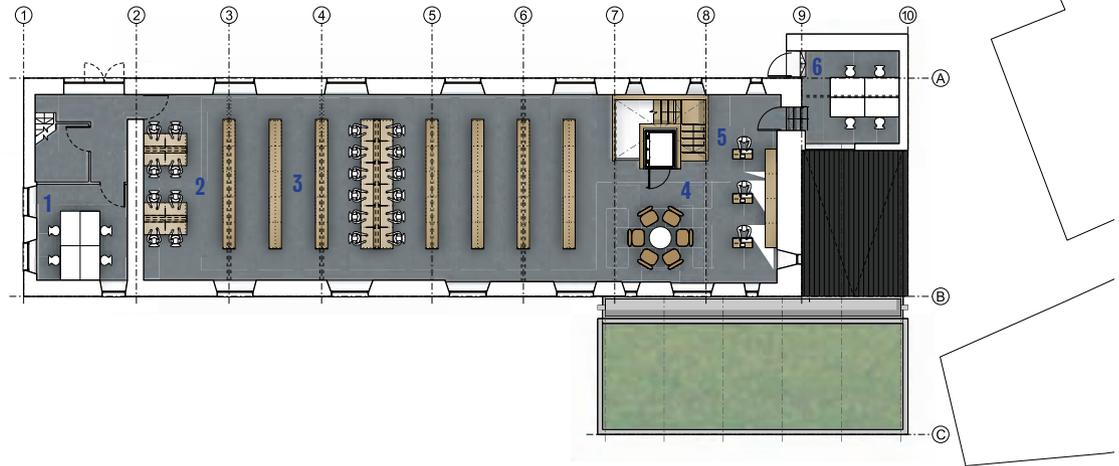


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BUILDING PROJECTS

Library and student hub first floor plan, including:

- 1 Postgraduate room
- 2 Quiet study
- 3 Library stacks
- 4 Informal reading area
- 5 Quick-access terminals
- 6 Postgraduate room



'The project brings significant social and economical benefits to the town of Ambleside'

Client:

University of Cumbria

Main contractor:

City Build Manchester

Architect and

landscape architect:

John McAslan + Partners

Structural engineers:

Arup; Thomas Consulting

M&E: Hoare Lea

Planning consultant:

Deloitte

Cost consultant:

Sweett Group

Project manager:

Faithful + Gould

been a major factor. There is disability access for 75 per cent of the teaching accommodation. Induction loop systems have been created, along with fully lit pedestrian routes across the campus, disabled parking, and level access into and within all buildings where possible.

There are access ramps, accessible lavatories, platform lifts, accessible computer terminals, automatic doors and improved way-finding.

The project brings significant social and economical benefits to the town of Ambleside. Students and a thriving university will help boost the local economy and the university's revitalised buildings will be used to house community events and lectures out of hours, enhancing the opportunities for adult learning in the community.

Phase One was accomplished in just under two years, from starting the masterplan to completing the construction. Site work will total about 12 months by the time the remaining phases are completed at the end of the summer.

University of Cumbria chief operating officer Janet Whitworth tells *ADF*: "The new development, which is known as The Barn, was a bespoke design expressly commissioned to ensure it met our requirements for flexible work/study space specific to the course provision delivered at the campus. It's now in full use and proving very popular with students and staff.

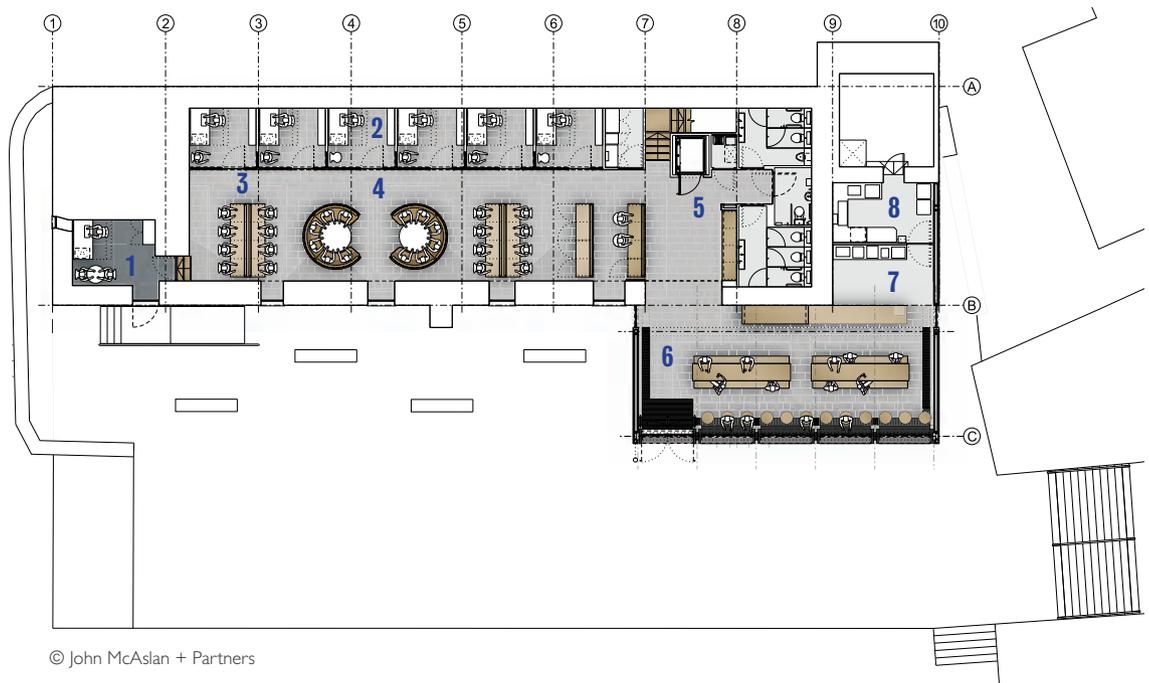
"The Barn provides learning spaces, social and flexible areas, a wireless environment, and reception services for the campus and the library. The university's student support services are also located there to support all students, staff and visitors on campus, as well as the new Barn Café, which is integral to the space.

"We're extremely pleased with the final look of the development and its operation," she says.

The campus is a winning combination of location, history and modern design, and it has been shortlisted for a number of architectural awards.

Ground floor plan, showing:

- 1 Staff offices
- 2 Staff offices and interview room
- 3 IT desks
- 4 Social learning space
- 5 Reception and student services
- 6 Café
- 7 Servery
- 8 Kitchen



© John McAslan + Partners

Door closers help retain heritage



Powermatic controlled door closers from **Samuel Heath** are perfect for use in heritage and historic buildings. Meeting all relevant fire and accessibility requirements, Powermatic door closers deliver many advantages over surface-mounted door closers and floor springs. Fitting neatly between the door and frame, they are totally concealed when the door is closed and unobtrusive when the door is open, enabling the appearances of doors and interiors to be retained – a preferred choice by many designers and specifiers. In areas where there is potential for door controls to be damaged, they present very little opportunity thanks to minimal exposed controls, assuring reliability and potentially saving money on repairs. The closers are available in nine finishes.

0121 766 4200 www.samuel-heath.co.uk

enq.124

Handmade bullseye dormers for collection



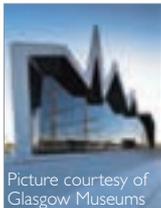
VMZINC has supplied handmade zinc bullseye dormers for the roof of the Grade II listed Wallace Collection in Paddington. The company's Heritage Division (Ateliers d'Art Français) worked with John O'Connell Architects to design ornamental features for the historic London town

house in order to enhance the roof's classical appearance within conservation area guidelines. In reality, the dormers disguise ventilation outlets and have been used with batten cap roofing in pre-weathered QUARTZ-ZINC® PLUS. This was specified to provide an unobtrusive blend with natural slate, the new roof enabling long overdue work to begin restoring ceilings.

01992 822288 www.vMZinc.co.uk

enq.126

Promat product portfolio goes on display



Picture courtesy of Glasgow Museums

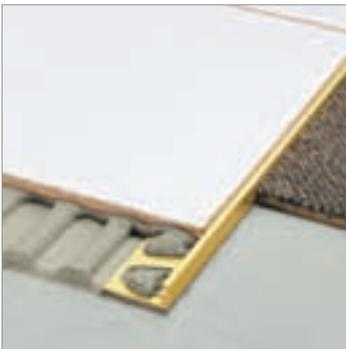
The Riverside Museum, Scotland's Museum of Transport and Travel in Glasgow has installed a combination of **Promat** passive fire protection products to provide a robust fire protection and means of escape. Promat supplied 400m² of Promat SUPALUX® for the project. Promat SUPALUX is a lightweight and non-combustible building board that offers up to four hours fire resistance for a range of general-purpose building applications. Different sections

of the building's structural steelwork were protected by either Promat TD Board® – an inert mineral fibre board – or by the lightweight, non-combustible Promat VERMICULUX® board, which is made from calcium silicate.

01344 381350 www.promat.co.uk

enq.128

Five year restoration project is complete with Schlüter



A Grade II listed church has risen from the ashes thanks to the completion of a restoration project that started in 2008 after it was devastated by a fire. With only the shell and the tower intact, St Nicholas Church in Leamington Spa has undergone a major renovation over the past five years, with high quality products from **Schlüter-Systems** being used to in the process to provide a safe and secure flooring installation. Specified by the architects on the project, Schlüter®-DILEX-KS movement profiles, Schlüter®-SCHIENE threshold strips and Schlüter®-DITRA matting were all used to secure and compliment the church's new stone tile flooring. Ideal for such public buildings, thanks to each products high durability when it comes to heavy pedestrian traffic, Schlüter products work beneath flooring to provide the ultimate in security, while also providing an aesthetically pleasing and discreet appearance on the surface. Schlüter®-DITRA is a polyethylene membrane with a grid structure of square cavities, each cut back in a dovetail configuration and an anchoring fleece laminated to its underside. Movement joints from the Schlüter®-DILEX range offer secure edge protection and maintenance free solutions for surfaces exposed to continuous pedestrian and vehicular traffic. Schlüter®-SCHIENE offers the perfect protection.

01530 813396 www.schluter.co.uk

enq.129

Tate Britain transformed with BAL



BAL adhesives and other products were used extensively at a stunning £45-million redevelopment of Tate Britain, including BAL Thickbase (single-part self-smoothing levelling compound), BAL Prime APD (acrylic primer for walls and floors) and BAL Supercover Rapid Flex (fast-setting flexible adhesive). As a

major addition to the museum's former layout, a large opening through the floor of the main entrance rotunda allowed a new staircase to be inserted. A further 2,000 m² of flooring included a stunning geometric design that extends through the lower level of the museum; the canteen, public areas and lower rotunda.

01782 591100 www.bal-adhesives.co.uk

enq.125

GEZE powers Ripon Cathedral's new entrance



Two years after the construction of Ripon Cathedral's Narthex Entrance has seen nearly 200,000 visitors pass through its automatic glass doors, which feature **GEZE UK's** Slimdrive SL automatic operators. The brief was to create a welcoming new entrance that would transform the Cathedral, flooding it with light and allowing people to see directly inside. GEZE UK was commissioned to provide door operators

for two single-leaf doors positioned either side of the lobby to complement the new porch's elegant design, yet create a safe automatic entrance for a historic building with a high level of footfall. With its slim design and a drive unit height of just 7cm, the Slimdrive SL automatic sliding operator was the perfect solution.

01543 443000 www.geze.co.uk

enq.127

news bytes

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

Door closer helps retain heritage...

Ref: 28532

Loyd Grossman on heritage activism – is it a force for good?...

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Heritage Roofing Register – a helping hand for architects...

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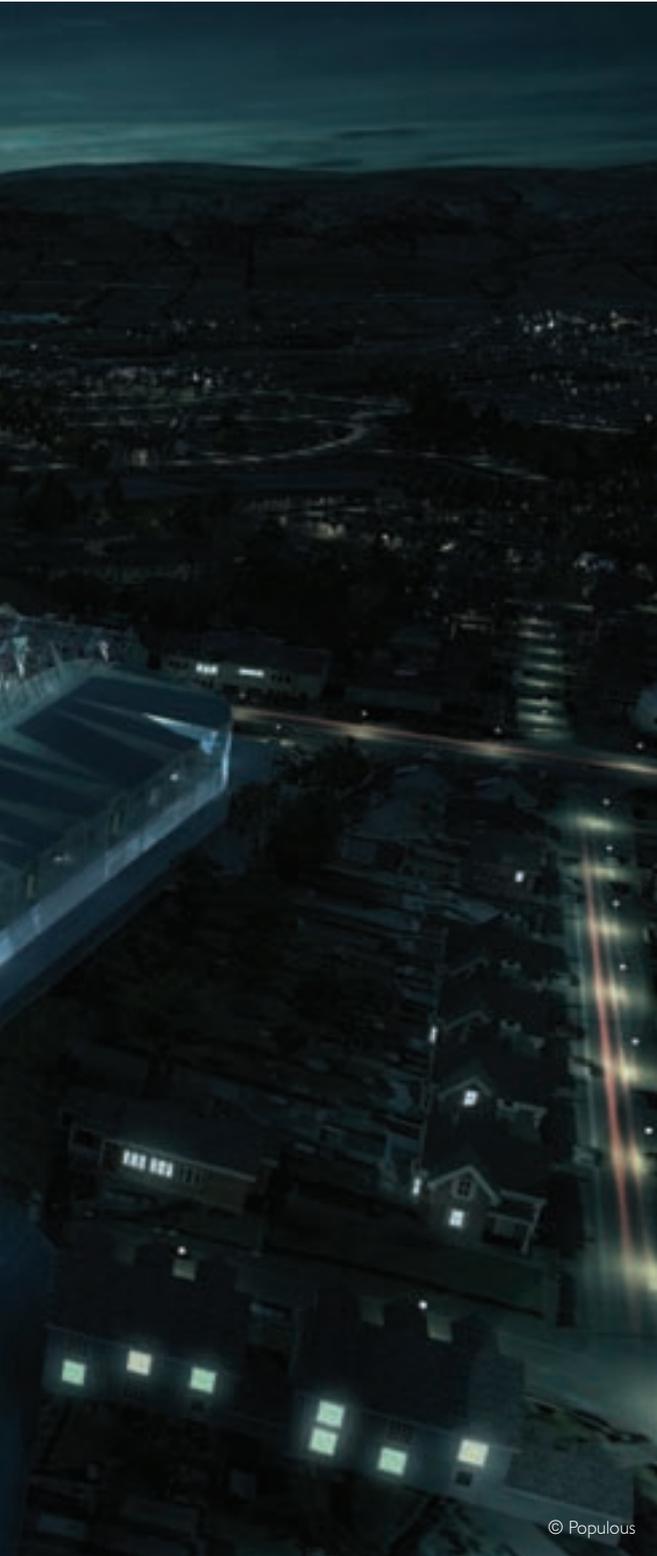
Milestone in 'painstaking' project breaking new ground in 'futureproofing' a city's history and heritage...

Ref: 32355

New heritage regulations will help to maintain and manage change to listed buildings...

Ref: 32545





One final hurdle for Belfast landmark stadium

Steve Menary reports on plans for Northern Ireland's newest venue, the Ulster GAA Stadium, designed by Populous

With the troubles now hopefully consigned to Northern Irish history, a new political consensus has emerged that is aiming to heal wounds scarred by decades of conflict and unite Ulster. That is transferring into sport with the building of a new national stadium for the Gaelic code.

In 2009, the Northern Ireland Executive promised to help meet the needs of all three main sports in Ulster. Although rugby union and football share the new Aviva Stadium at Dublin in the Republic of Ireland, in Northern Ireland the three main sports play separately: football at Windsor Park, rugby union at Ravenhill and Gaelic sports at Casement Park.

After the NI Executive promised their support, the Ulster Council of the Gaelic Athletic Association (Ulster GAA) published a report, *Ardú Bhéal Feirste*, laying out the need to develop Gaelic sports in urban centres, particularly the Northern Irish capital of Belfast, which has a population of around 580,000 people.

The redevelopment of Casement Park was at the heart of this report. At present, the ground can hold 32,500 fans but the ground is run down. Ulster GAA's requirement was for a comfortable, safe, secure, operationally efficient stadium.

Redeveloping Casement Park would not work for a variety of obvious reasons. The main stand fabric is at the end of its operational life, the stadium is visually poor with uncovered, hard terracing and lacks corporate facilities. The turnstiles are

Continued overleaf...

'A new political consensus has emerged that is aiming to heal wounds scarred by decades of conflict and unite Ulster'

© Populous



© Populous

out-of-date, the evacuation capacity is poor and the flood-lighting spills onto surrounding properties.

What the Ulster GAA wanted was a 40,000 all-seat stadium to cater for hurling, camogie, Gaelic football, rounders, and handball in a project that has become about more than a building scheme. Sports Minister Carál Ní Chuilín says: “Stadium development is not just about sport and the benefits associated with sport. It is also about maximising social opportunities around major capital investments.”

So with a major rebuild proposed, Ulster GAA set out on a long planning and design process by recruiting RPS as planning consultant and then assembled an Integrated

Consultancy Team (ICT), which was formally unveiled in September 2013. The team also included Cosarc Design Group as local architect, plus Gardiner & Theobald as project manager, Franklin & Andrews as cost consultants, pitch designers STRI and Tricon.

At the same time, Populous – designer on a number of venues at the London 2012 Olympic Games – were recruited as the lead architect. Populous principal Mike Trice says: “The ICT comprised Mott as contracting body. They are employed by the client and everyone else is sub consultants.

“The award of the project followed a section process based on fee and quality. Quality was based on answers to project



‘Stadium development is not just about sport and the benefits associated with sport. It is also about maximising social opportunities around major capital investments’

Carál Ní Chuilín,
Sports Minister

specific questions and experience.”

The redevelopment will centre on a pitch measuring 144m by 88m pitch, which is the same as the most famous Gaelic sports arena, Croke Park in Dublin.

The initial capacity was reduced to 38,000 and the project will also provide changing facilities, operational space, concourse facilities for 35,120 spectators, premium seating and facilities for 2,000 sports fans and dining facilities for 880 people.

The brief set by Ulster GAA to the design team was to be sympathetic to the local environment and surroundings and also reflect the ethos of the Gaelic sport itself. The local envi-

ronment is particularly important for the design as Casement Park is surrounded on three sides by housing, mostly two-storey red brick homes, along with a terrace of shops that are half a storey lower than the existing stadium.

To mitigate this, the design team proposed that fans should enter solely from the Andersonstown Road end of Casement Park to limit disruption to residents. The design is also as low as possible to maintain light to surrounding residents and limit overshadowing. The pitch level has been set as low as economically feasible, but this element of the design has not been helped by a low water table.

The design produced by Populous and the rest of the ICT

Continued on page 35...

LEVATO MONO porcelain paver system

The Levato Mono porcelain paver system is the pinnacle of external raised flooring technology; enabling the specification of lightweight, slip resistant and attractive raised flooring solutions, combining incredible technical properties with uncompromising aesthetics; making them the ideal choice for commercial and domestic use alike.



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centres on three main elements: the plinth, the cloud and the truss.

The specification for the plinth is for a 'robust masonry system' that responds to the scale of the urban environment and in particular nearby housing and retail buildings. According to the client, the concept behind the plinth is that it represents the 'solid foundations and the strength of the GAA as a community and volunteer based organisation'.

The cloud element of the design aims to minimise the impact of the stadium through reflection with the design specifying a light, translucent material. The truss is intended to be an 'architectural and structural triumph in stadium design' and picks up on the design at another major stadium redevelopment at Wembley Stadium in London, where Populous was also involved.

In Belfast, the GAA pitch at Casement Park is as wide as a

football pitch, which means there is a need for spans of more than 200m. The design from Populous and the ITC specifies an elegantly engineered truss to support the roof of the stadium with a view to create an image that will be visible across Belfast's skyline.

For Populous, there was an inherent contradiction in the brief. The client wanted the lowest building possible to minimise the impact on local residents, but, as the architects' acknowledge in their design statement, Ulster GAA also wanted to 'address the lack of presence on the Andersonstown Road and wanting to create a structure that becomes a landmark for the area.

The solution proposed a balanced west and east stand. The west stand will be made larger and the east smaller. To keep the west stand within the lighting envelope set by BRE site planning and layout guidance, the whole building is

'The specification for the plinth is for a 'robust masonry system' that responds to the scale of the urban environment and in particular nearby housing and retail buildings'

Continued on page 37...

Horne featured at new Commonwealth Games facilities



The 2014 Commonwealth Games are now in full swing as 6,500 athletes compete in 17 different sports. Undoubtedly, Glasgow 2014 will witness some memorable moments in sport, but the Games have also been a catalyst for the creation of a truly exceptional sporting estate – a significant legacy for Glasgow and the whole of Scotland. Of the 16 competition venues, **Horne** branded products feature in all four of the new build facilities and in two of the three redeveloped/refurbished facilities. For a lasting legacy, quality counts. Horne showers and mixing valves selected for the venues were: Sir Chris Hoy Velodrome (track cycling): TSV1-A108A accessible shower and SP-200A sports panel shower (now superseded by the Dušo shower column); Emirates Arena (badminton): TSV1-A108A and SP-200A; International Hockey Arena (hockey, marathon and road cycling): SP-200A; The SSE Hydro (gymnastics, netball): TMVs – 15mm to 32mm; Royal Commonwealth Pool, Edinburgh (diving): TSV1-A107A2L accessible shower and SP-200A; Tollcross Swimming Centre (swimming): SP-200A. The Dollan Aqua Centre, a commonwealth training venue in East Kilbride, also selected Horne for a last minute shower upgrade, where timed flow control showers with integral thermostatic valve, TSV1-A109A were installed.

01505 321455 www.horne.co.uk

enq.132

Beautiful roofs for the beautiful game



photo: Portal da Copa/ ME

Twelve football stadiums were ready on time for the start of the football tournament in Brazil. Work had been going on night and day to achieve this goal. Five of these gigantic stadiums are covered with **Firestone UltraPly™ TPO** membrane. The UltraPly TPO membrane was selected for its speed of installation and ability to suit the demanding design of the roofs. UltraPly TPO was selected for its dimensions and flexibility to ensure that the curved roof shape could be covered in a very aesthetic way, along with a light coloured reflective top layer that helps reduce the inside temperature of the building during hot, sunny periods. All of the five stadiums were insulated with Firestone ISO 90+ GL insulation boards, made from a minimum of 29 per cent recycled material. These boards are compatible with all single-layer roofing system and suitable for installation on steel, concrete and wooden surfaces and provide excellent thermal resistance. Further proof that when it comes to roofing 'Nobody Covers You Better' than Firestone.

For more information on Firestone products contact Firestone's regional office on 01606 552026 or visit www.firestonebp.co.uk to read the full article and for further information.

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Photo: Chin Tan

Winning bronze

Visitors to the newly redeveloped Adelaide Oval – one of Australia's most iconic sports venues – will now be greeted by a dramatic, cantilevered curved form over the main entrance, created from over 4,000 individual panels of Nordic Bronze from **Aurubis**. The design is conceived as a series of pavilions in a parkland setting. The two new stands combine concrete structures and tiered-seating, curtain-wall glazing and diagrid PTFE roofs. A copper mesh veil provides shelter and solar shading to facades, and is pierced by a series of solid Nordic Bronze clad volumes, orientated to optimise specific local views. In addition to Nordic Bronze, other Aurubis copper alloys include Nordic Brass – which is now also available pre-weathered – and the innovative Nordic Royal, an alloy with a long-lasting golden colour. Aurubis Architectural copper surfaces include Nordic Standard 'mill finish', as well as Nordic Brown pre-oxidised copper giving either light or dark brown oxidation that otherwise takes time to develop in the environment. Nordic Green and Nordic Blue factory-applied patinas are also available.

01875 812 144 www.aurubis.com/finland/architectural

enq.135

pushed over to the eastern boundary of the site.

The design then proposes a large capacity north stand up to the limit of the lighting envelope with the south stand the smallest and featuring the smallest amount of accommodation at the rear.

The design also includes four squares along the Andersonstown Road, which will provide 1,000 sq m of space for up to 2,000 spectators to gather before and after games. When the project gets onto site, the redevelopment is expected to generate more than 1,500 construction jobs and, on completion, will also feature 2,000 sq m of community space, reflecting the concerns of the Ulster GAA to engage with the local community.

In a politically delicate climate, the client has been keen to work with local groups on the project and Populous is teamed up with the Belfast office of another architect, Cosarc. The Ulster office of RPS is working on the project and the legal advisors to the client are Tughans, one of Northern Ireland's largest firms.

The same approach applied to the recruitment of a main contractor. The firms invited to bid included the County Kildare office of Dutch-owned contractor BAM, Irish outfit John Sisk, Belfast-based group Lagan, McLaughlin & Harvey from Newtonabbey and Newry-based O'Hare & McGovern,

The winner was a joint venture between Buckingham, an English firm that built the £30 million velodrome used at London 2012, and County Derry-based Heron Brothers. The joint venture was named Heron Buckingham.

In the Autumn of 2013, the client was hopeful that the stadium could be completed by September 2015. The award of planning permission at the end of that year seemed to mean the project was on track, but a local residents group, the Mooreland Owenvarragh Residents Group (MORA), had long been expressing concerns over the project.

The Ulster GAA had carried out a number of public consultations and had been working with MORA since April 2012, but the residents remained dissatisfied by the scale of the rebuilding work.

Instead, MORA want a venue with a capacity of between 20,000 and 25,000. When planning was formally approved, the residents disrupted the announcement.

Citing a technicality that the Department of Environment treated the scheme as a stadium instead of a mixed use scheme, MORA succeeded in late May 2014 in persuading the High Court to undertake a judicial review into the granting of planning permission.

The hearing will take place in September 2014. Populous and the rest of the ICT may ultimately need to downsize their plans for the stadium in terms of capacity but the inspiration for the project will remain.



Ulster GAA Stadium timeline

April 2009

Northern Ireland First Minister Peter Robinson agrees to meet the 'strategic needs' of the three largest governing bodies of sport in Northern Ireland, the Ulster GAA, Irish Football Association and Ulster Rugby

March 2011

Northern Ireland Executive agree to provide a capital envelope for strategic and regional sports stadia development

February 2012

NI Executive confirm offer to invest £61.4 million in the Casement Park project

September 2012

Ulster GAA appoint an Integrated Consultancy Team led by Mott Mac and Populous

November 2012

Tughans appointed as legal advisors to Ulster GAA

May 2013

Final period of public consultation begins

July 2013

Planning application formally submitted

December 2013

Heron Buckingham awarded construction contract

February 2014

Planning permission secured for a 38,000-seat stadium

May 2014

High Court orders a judicial review into the planning process

Project:

Ulster GAA Stadium

Cost: £76 million

Location: Belfast

Client: The Ulster Council of the Gaelic Athletic Association

Legal representatives: Tughans

Architect: Populous

Planning consultant: RPS

Stadium designer: Mott MacDonald

Local architect: Cosarc Design Group

Project manager: Gardiner & Theobald

Cost consultant: Franklin & Andrews

Pitch designer: STRI

Main contractor: Heron Buckingham

Refurbishment scheme makes a splash in Cleethorpes



Cleethorpes' 1980s-built leisure centre sits on the seafront in the popular resort town, the building makes the most of

views of the shoreline with full height windows that connect the pool areas inside with the sea and the beach outdoors.

After 30 years' use by both the local community and holiday makers, the local authority asset was in need of a facelift and an upgrade, inside and out. After successfully applying for Sport England funding towards the cost of converting the old-style, single-sex changing rooms to a more family-friendly unisex changing village, the centre's operating company, Lincs Inspire, decided to make the most of the required four-month shut down period with a full refurbishment.

Explains Jon Wilcox from NE Lincolnshire Council: "The roof was a major area of concern because water ingress had already started to discolour some of the ceiling tiles in the pool area so

it was affecting both the internal environment and showing evidence of failure.

"We needed a system that could be installed quickly without the need for a strip out of the existing roofing materials and could withstand the marine environment, strong winds and high levels of UV that the leisure centre is subject to in its coastal location: Kemper System's Kemperol V210 cold liquid-applied system was ideal."

The roof was first cleaned and prepared, then the Kemperol V210 waterproofing system was applied on top of the existing failed asphalt roof. Applied wet-on-wet in a single process, the Kemperol resin saturates a non-woven polyester reinforcement fleece and cures to form a seamless, durable, UV stable, monolithic membrane that bonds directly to the substrate.

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Rapid water heating at Olympic venue



Atlantic Boilers has played its part in the success of the £25 million Lee Valley White water centre, which has opened again to the public after the Olympic Games, by providing the space heating to warm up competitors and spectators alike. Lee Valley Regional Park Authority chose two Atlantic

Multi-Elec Compacte 36kW electric boilers. In a remote location, these reliable, easily serviceable boilers were ideal. Also, flues were not required to puncture the streamline-shape of the roof and spectator terrace of the Facility Building which is a winner of the RIBA East Spirit of Ingenuity Award. In addition, standing losses are less than one third of one per cent of the fuel bill.

0161 621 5960 www.atlanticboilers.com

enq.137

New forward thinking design from Polyflor



Polyflor is delighted to announce the launch of Polysafe Verona PUR; the latest advancement in safety flooring design from the Polysafe range. Polysafe Verona PUR lays a major foundation for the future of the decorative safety flooring market. Featuring a specially engineered emboss and unique matt finish, it uses complementary coloured quartz in the vinyl to harmonise with the base shade and generate

slip resistance. The result is an aesthetic safety floor that looks like a smooth vinyl once laid. It achieves the same tried and tested credentials of sustainable wet slip resistance, achieving 36+ on the Pendulum wet test with full conformance to HSE Guidelines and the EN 13845 50,000 cycles abrasion test.

0161 767 1111 www.polyflor.com

enq.138

Supporting sporting Scotland



In recent years Grundfos has proven itself all over the world as the pump supplier of choice when it comes to major sporting events. Perhaps this is because of the innovative nature of its product portfolio or the breadth of the range that can answer

virtually any application demand. Grundfos is delighted to be involved in helping to create a little bit of history for Scotland in 2014. 6,500 athletes and officials from 71 countries will converge on Glasgow to participate in the Commonwealth Games. With many years' experience of successfully delivering landmark projects in Scotland, the Grundfos team are proud to be associated with many of the new and existing sports centres as well as a diverse range of supporting venues.

01525 850000 www.grundfos.co.uk

enq.139

Opening the Reynaers doors in time



Opening its doors in time for this year's Henley Royal Regatta week after an extensive refurbishment, Phyllis Court Grandstand occupies an unrivalled position adjacent to the water's edge on the finish line of the course. The two storey grandstand makes use of Reynaers sliding and bi-fold door systems,

which open up the area to reveal the full potential of the location and let in the ambience. The grandstand features a run of CF 77 bi-fold doors which facilitate opening the entire frontage of the grandstand alongside the Buck's side of the river. Reynaers ES 50 outward opening windows provide natural ventilation, while CP 155 thermally insulated sliding systems deliver access to the balcony.

0121 421 1999 www.reynaers.co.uk

enq.140

Levolux returns to the village



Following the success of London 2012, as the Athletes' Village prepares for legacy use, an 850 space car park is already standing by, equipped with a striking screening solution courtesy of **Levolux**. The architects required a custom screening solution which would provide drivers with a striking visual reference, helping them recall the location of their vehicle on returning to the car park. The solution com-

prised a total of 627 fixed, aluminium aerofoil-shaped Fins, fixed vertically around the perimeter of the car park. The Fins, each measuring 600mm deep by 50mm thick and up to 2.6 metres in length, are formed from four extruded aluminium components. Levolux's range of Solar Shading and Screening products can be custom designed to satisfy almost any project brief.

enq.141

Everything for tiling – properly guaranteed



Tilers nationwide can now source everything they need from a single supplier, all covered by a 25 year guarantee, thanks to **BAL**. A leader in professional tile adhesives and grouts fully guarantees everything bearing its name, including BAL Rapid-Mat, its remarkable new uncoupling solution. This has taken the market by storm, being the UK's first and only uncoupling mat fully guaranteed for 25 years by the supplier.

Dave Stott, winner of last year's TTA Tiler of the Year award, said: "Fixers do not want vague assurances from suppliers. We expect a clear, written guarantee so that we know where we stand with products. BAL is the only manufacturer to offer a straightforward 25 year promise, which it puts on its website for everyone to see."

01782 591100 www.sec-it-for-yourself.com

enq.143

Saniflo launches new trade brochure



Available since the end of June, the new trade brochure from **Saniflo** is designed to make the lives of installers and vendors easier. For the first time, the stunning, easy to use product catalogue features both the domestic and professional range – along with Saniaccess and Sanicondens – in one handy piece of literature. In addition, alongside each product there's a 'why choose this product' section, which clearly indicates how and

when each product is best used, with the aim of simplifying product selection and providing installers with an excellent reference guide. Also featured are some new products, including the Sanifloor, which can be used to create a shower space or wet room almost anywhere, and is already proving to be a huge hit.

020 8842 0033 www.saniflo.co.uk

enq.145

Surface temperature factor is critical calculation



The surface temperature factor (f_{Rs}) is critical because the consequences of condensation and mould growth are potentially more serious for building occupiers than local heat loss. If condensation forms near a thermal bridge, it is likely to result in structural integrity problems with absorbent materials such as insulation products or plasterboard – and of greater concern, the occurrence of mould growth. Practically every building contains mould spores

in its fabric which are dormant and completely harmless. However, given the right conditions, these will germinate and become a potential health risk to occupants in the form of asthma and allergies. Please contact **Schoeck** for more information.

01865 290 890 www.schoeck.co.uk

enq.146

Ancon confirms CE Marking compliance



From 1st July 2014, the CE Marking of structural steelwork to BS EN 1090 became a legal requirement. Now, any fabricated structural component delivered to site without a CE mark is in breach of the EU Construction Products Regulation. **Ancon** is proud to have offered the Industry a fully CE-compliant range since July 2013 – a full year ahead of the industry deadline. The CE Marking of Ancon's extensive product portfolio, so far in advance of the 2014 deadline,

demonstrates an established understanding of Eurocode design methodology and a long-term commitment to robust manufacturing controls. Ancon encourages the industry to understand the risks, demand the CE Mark and accept no excuses.

0114 275 5224 www.ancon.co.uk

enq.142

New EU sealant products regulation



It is now mandatory for all sealants covered in the European standard EN 15651 to be CE marked according to their application and properties. This legislation means that it will be illegal to manufacture sealants and sell within the EU without the relevant CE marking. To comply with these new regulations, Sika **Everbuild** has

been working hard to add the required CE panel onto all appropriate packaging and labels as defined by the standard. In addition to this, Declaration of Performance certificates for all affected products will be available to view on the relevant product pages of the Everbuild website from 1st July 2014.

0113 240 3456 www.everbuild.co.uk

enq.144

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Landmark sustainable construction nears completion at Newcastle Science Central...
Ref: 46302

Horne featured at new Commonwealth Games facilities...
Ref: 39399

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Ref: 39628

Research into hospital infection control, overheating & ventilation is welcomed and supported by SE Controls

Two key pieces of research into hospital ventilation and environmental management are in the process of setting out new ways of thinking about how future healthcare building designs will need to manage indoor air quality more precisely to improve infection control, patient comfort and energy efficiency.

The recent study by Leeds University, led by Dr Cath Noakes, into the effect of airflow in open plan and partitioned 'Nightingale' style wards in Bradford has shown that when windows are closed to reduce heat losses and energy costs, there is an increased risk of infection due to a four-fold increase in airborne pathogens.

In addition, the findings and recommendations of a major research study are to be published shortly, which examines how hospital environments, ventilation strategies and energy management



will need to evolve to ensure the long term effects of climate change have no impact on patient care standards.

The Design and Delivery of Robust Hospital Environments in a Changing Climate (De²RHECC) project is investigating economical and practical strategies for the adaptation of the NHS to increase

its resilience to climate change while meeting national carbon dioxide (CO₂) emissions targets.

Dr. Chis Iddon of SE Controls is directly involved in the De²RHECC project, led by Cambridge University's Professor of Architecture, Alan Short, and Professor of Building Simulation at Loughborough University, Kevin Lomas.

"The NHS currently generates around 18 millions tonnes of carbon and carbon dioxide every year, which accounts for around 30 per cent of public sector emissions, of which 22 per cent represents the energy used to light, heat and cool its buildings," explained Dr. Iddon. "As highlighted in the Leeds University study, if the stringent energy reduction targets are to be met, which demand a 60 per cent reduction on 1990 levels by 2050, then hospitals will need to reduce energy use while maintaining high levels of patient care." enq.147

Contact SE Controls today on 01543 443060, email info@secontrols.com or visit www.secontrols.com



Designs on OSB

To add a creative twist to this year's campaign, the JOSB Done campaign to promote Oriented Strand Board (OSB) has partnered with London based design studio Material Lab to showcase the uses and benefits of OSB to the design and specification community, with various project collaborations planned for the year ahead. Focusing on promoting OSB's appeal in terms of its form and its function, this new partnership will enable the messages of the JOSB Done campaign to reach a broader audience – and one that is increasingly inspired by this versatile engineered wood panel. Material Lab is a vibrant studio on Great Titchfield Street, London, run and funded by leading tile manufacturer Johnson Tiles, with hundreds of different materials on display in exciting and creative ways. Used by architecture and design professionals day in and day out, the studio brings to life different building and interior materials to show their true characteristics – or to present them in a different way entirely. As well as offering 100mm x 100mm OSB samples from the studio's expansive sample wall, Material Lab will also be using OSB in a series of engaging displays that will change as the year goes on, with the aim of bringing to life this engineered wood panel.

www.josbdone.com www.material-lab.co.uk

enq.148

Successful awards to become an annual event



The winners of the first Schueco Excellence Awards for Design and Innovation were announced at Tate Britain on Thursday 19th June. As a result of the interest that the Awards have generated among building professionals, Schueco UK has announced that the competition will become a regular annual event. Run in conjunction with

RIBA Journal, the awards celebrate the best in UK building design with special emphasis on the use and installation of Schueco systems and on best construction practice. The awards are open to all architects and specialist contractors in Great Britain and Ireland; eight individual categories ensure that all major sectors of the market are covered. For further details of the Awards, please contact Schueco.

01908 282111 www.schueco.co.uk

enq.149

Synseal wins ECMOD award



Synseal has won the ECMOD Direct Commerce Award 2014 for best B2B business/brand worth £50 million+. The ECMOD (Every Channel Mastered Optimised and Delivered) awards have been established for over 15 years and attract entries from some of Britain's most dynamic and innovative B2B and B2C companies. These annual awards recognise the hard work, flair and commitment of multi-channel businesses. Synseal topped some high quality competition to secure this award accolade and its successful submission was sponsored by Nottingham-based ERP software systems providers Columbus, who provide specialist IT support services to the company.

01623 443200 www.synseal.com

enq.150

BBA certification for Triton's watertight concrete system



Triton TT Admix, a concrete admixture manufactured by Triton Systems, has been awarded BBA certification. Designed to provide Type B structural waterproofing as defined in BS 8102 (2009), TT Admix is added to concrete at the time of batching. The active chemicals in TT Admix react with fresh concrete to generate insoluble crystalline growths that seal the concrete against water penetration and protect it against harsh environmental conditions.

When specified with Triton's pre-formed water-stop and expansion products that seal poured, in-situ construction joints, it delivers a complete and permanent watertight concrete construction system. The system is backed up by Triton's technical expertise, site inspection regime and warranty.

This BBA certification means that Triton can

offer architects and other specifying organisations, such as the NHBC and local authorities, a complete range of BBA certified waterproofing systems suitable for use in all types of projects, from domestic basements to multi-level, below ground car parks.

Triton is a RIBA-approved CPD provider and offers a seminar covering the specification of Type B waterproofing systems.

enq.151

For more information call Triton Systems on 01322 318830, email info@tritonsystems.co.uk or visit tritonsystems.co.uk

Vent-Axia's Lo-Carbon Response wins award



Vent-Axia is celebrating winning Best Brand New Product of the Year in the prestigious Housebuilder Product Awards 2014. Scooping the award for its revolutionary Lo-Carbon Response™ dMEV solution, the Sussex-based company received the accolade at an awards ceremony held at Edgbaston Stadium,

Birmingham. Packed with innovative features, the Response is a near silent, continuous running, constant volume dMEV solution. The SAP Appendix Q listed Response is ideal for both kitchen and bathroom applications. Jenny Smith, marketing services manager said: "We are delighted to have been acknowledged by the housebuilding industry for our pioneering Lo-Carbon Response™."

0844 856 0590 www.vent-axia.com

enq.152

Vortice celebrates its 60th anniversary



2014 sees the 60th anniversary of Vortice Elettrosociali, a leading European ventilation systems manufacturer, with a UK office in Burton on Trent. Since its inception, Vortice has always attributed great importance to aesthetics, maintaining constant collaborations with famous architects

and designers and winning numerous design awards over the years. Today, Vortice is a market leader in the ventilation industry with an extensive range of products designed to ensure air quality and climate comfort: from relatively simple extractor fans to air conditioning units, air purifiers, dehumidifiers, infrared lamps, right up to highly complex heat recovery systems and air handling systems.

01283 492949 www.vortice.ltd.uk

enq.153

NW Systems' webcam services offer live bird's eye view of King's Cross development project



NW Systems Group's Streamdays and RemoteManager video streaming and video monitoring and recording services have been selected by one of the UK's most respected property development groups, Argent LLP, to provide live and recorded images as one of London's largest redevelopment projects ramps up. NW Systems has installed three high resolution fixed network cameras and two Pan Tilt Zoom (PTZ) cameras on the top of two buildings within 67 acre redevelopment zone around London King's Cross station. A total of five network cameras have so far been commissioned to provide overhead views of the site and six further cameras are planned. They will witness the redevelopment and construction of more than 50 buildings over the next 10 years.

Images from selected cameras are simultaneously being streamed using NW Systems' Streamdays 2 live streaming service. The results can now be viewed at www.kingscross.co.uk/webcam. The project site is supported by a busy social media communications space on the same site. This website is designed to stimulate engagement and meet the public's interest in this gigantic development.

0151 633 2111 www.streamdays.com

enq.154

Amwell Systems - embracing the need for BIM



In a recent survey by Construction News, culture change was cited as the biggest issue companies faced when implementing BIM. At Amwell, the company is constantly focused on embracing change within the industry, making it as easy as possible to specify its wash-room products. With 72 per cent of those surveyed also commenting that it is “imperative to invest in BIM in the next 12 months”, the company recognises how important it is to comply with this, and as a manufacturer, offer customers the most comprehensive BIM models possible. Amwell’s dedication is such that it employs an in-house team of architects and designers who for the last 12 months have been working tirelessly to produce detailed, user-friendly BIM models.

01763 276200 bim@amwell-systems.com

enq.155

Bluesky 40 per cent offer on OS MasterMap



Bluesky has launched its new online map shop with a 40 per cent saving on Ordnance Survey MasterMap Topography Layer. The Map Shop (www.blueskymapshop.com) makes it easier to access and purchase the highest resolution, most up to date aerial photography for the whole of

the UK as well as the newly launched National Tree Map, detailed 3D height data and other Ordnance Survey map layers. Visitors can search by place name, post-code or OS coordinate and upload in a variety of file formats.

01530 518 518 www.bluesky-world.com

enq.156

news bytes

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

Workspace’s Faircharm Creative Quarter wins New London Award in recognition of its pioneering design and architecture...

Ref: 50398

Mayor publishes planning guidance to protect character of London...

Ref: 56437

TCPA conference about planning and social justice...

Ref: 54388

Capita designs plans for Chipping Campden School revamp...

Ref: 57026

Hunter’s got some bottle



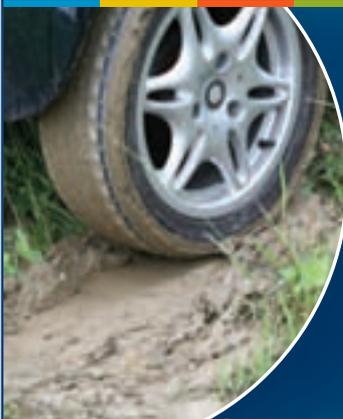
Hunter Plastic’s favourite bottle gully has been given a revamp to include some improved benefits, including a new secured ring seal base, removable 110mm rear boss plug and improved internal access, which makes it even easier to clean, maintain and rod. The bottle gully is available with either round or square top and is suitable to take surface water from

small paved areas, rainwater via down pipes, or waste from ground-floor domestic appliances. By simply adding a raising piece the gully top can be installed at varying heights, allowing a new surface to be laid or when a deeper installation is required. The new bottle gully is part of Hunter’s extensive range of underground drainage products for domestic, commercial and industrial applications.

01622 852561 www.hunterplastics.co.uk

enq.157

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enq.162

Are you ready to specify an oak framed building?

Sarah Sell, sales manager at English Heritage Buildings, looks at what to consider when specifying an oak framed building

Traditional oak frame buildings are making a resurgence in the market as discerning customers look to achieve beauty, style and green credentials in their new building projects. The costs of an oak frame compared with a conventional build can be surprisingly competitive as long as careful choices are made in specifying the building and selecting the right manufacturer to supply your frame. In this article we have set out some considerations to help you with this process and allow you to confidently specify a beautiful oak frame to meet your clients' needs.

The first thing to consider is when to specify an oak frame. There are many reasons to choose an oak frame for your project:

Eco-friendly choice and sustainability

Oak should always be sourced from responsibly managed woodlands where replanting takes place after every tree is felled, guaranteeing the long-term availability of materials. Younger trees absorb more greenhouse gases than mature trees and therefore timber from properly managed woodlands are a truly eco-friendly choice. Oak frame buildings are a dry build, therefore saving gallons of water normally used on a building site. In addition, green oak has the lowest embodied energy of any primary building material.

Planning permission

If planning permission is a consideration, oak framed buildings can be regarded favourably, particularly in Areas of Outstanding Natural Beauty or where they are to be in conjunction with a listed building.

Lead-times

Supply lead-times can be just a few weeks, even for larger frames. As all manufacturing takes place off-site with the major frame suppliers, time and disruption on-site is also minimised.

Aesthetics

Oak is a beautiful building material that enhances the environment and can give a stunning appearance to the building.

Once it has been decided to specify an oak frame, there are many points to consider in bringing together the size and design:



- What is the building going to be used for?
- What is the size of the space available for the build?
- Will it need planning permission?
- A traditional oak frame can have a large free span without the need for supporting walls as it is a structural frame. Maximum allowed dimensions for any particular situation should be checked with the oak frame supplier.
- Think of the building as being made up of rectangles, where bays are adjoined to create the overall shape and length.
- Is the building to have an upper floor?
- What eaves height is required, for instance if it's a garage will the vehicle clear the beams and braces?
- What doors and windows are needed?
- What roof ends are required: full hip, gable or barn hip?
- Will the building be near a boundary and therefore require fireproofing?
- Is the building going to be insulated?
- A groundworker and roofer will be required
- What other services will be required, e.g. decorating, electrics or plumbing?
- What is the budget for the build?

'Oak frame buildings are a dry build, therefore saving gallons of water normally used on a building site'

Continued overleaf...

‘Oak is a beautiful building material that enhances the environment and can give a stunning appearance to the building’



With these points addressed the required design should start to become much clearer. It can also be useful to know what your client's most important considerations are, particularly if any compromise in the design is required.

Last but not least, an oak frame supplier will be needed to help achieve the desired project. Below is a list of questions to help in choosing the right company:

- What experience do they have?
- Do they have a defined quality standard for selection

of their green oak which is recognised by industry experts, e.g. TRADA (Timber Research and Development Association)?

- Do they offer a guarantee and if so, for how long and is this insurance-backed?
- Is the deposit protected by an approved scheme?
- What industry quality awards do they have?
- Will the building be manufactured to a defined quality standard and can they demonstrate this through fully audited third party quality schemes?
- Does the price include drawings, building specific structural calculations and lifting equipment for assembly? Look out for hidden extras which may be added later.
- Do they provide design and technical support throughout the course of the project?
- Is the price fixed with a holding deposit?
- Are there workshops where clients can visit to see buildings being manufactured?
- Do they have show sites where buildings can be seen first-hand?
- What are their lead-times?

These considerations should help in specifying of the building, ensuring the project itself runs as smoothly as possible and result in a beautiful oak framed building that you will be proud to include in your portfolio.

enq.163

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beams, scantlings, profiles, architraves and skirting, ex-stock and bespoke designs. Solid hardwood and engineered flooring in a range of hardwoods and finishes, plus solid internal batten door kits in oak, walnut and tulipwood.

01423 322370 www.johnboddytimber.co.uk

enq.166

Ancon extends award-winning TeploTie range



Masonry fixings specialist Ancon is continuing to lead the market in low thermal conductivity wall ties, with an innovative extension to its award-winning TeploTie range that sees it now suitable for surface fixing to an in-situ masonry leaf or structural frame. The new Teplo-L-Tie comprises a pultruded basalt fibre body set

in a resin matrix. This material, with its thermal conductivity of just 0.7W/mK, minimises heat loss across an insulated wall cavity which is an essential consideration in low energy construction. The launch of the new Teplo-L-Tie coincides with further developments in the standard TeploTie range which is now available for an even greater range of cavity widths up to 450mm.

0114 275 5224 www.ancon.co.uk

enq.168

'Barcode architecture' has huge potential



With more architects designing buildings that use natural ventilation rather than expensive, energy-intensive air-conditioning to control the internal environment, the launch of Schueco's AWS VV ventilation system is opportune. This product – a narrow, side-hung vent – is not simply a practical response to the need for non-mechanical cooling, it is also a system which

presents architects with a whole new layer of design potential through what is sometimes known as 'barcode architecture'. The name derives from the way in which when inserted into a curtain wall or ribbon window, the vents can resemble the vertical lines of barcodes found on product labels the world over. The decorative possibilities of this effect will be warmly welcomed by UK architects.

01908 282111 www.schueco.co.uk

enq.170

news bytes

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

Detailed look at damp proofing products...

Ref: 58247

Lightweight glazing units for architectural purposes...

Ref: 63675

Solid Wood Success – the future of timber construction...

Ref: 61717

Chandlers launch new brick selector website...

Ref: 66543

Structural Timber Association endorses Fair Payment Charter...

Ref: 63239

Made by Robots – Challenging Architecture at a Larger Scale...

Ref: 66838

Airtightness moves outside



A. Proctor Group's Wraptite-SA has been supplied to the recent new development at Drums of Park, Cornhill, Aberdeenshire. The self-adhering Wraptite-SA enabled the membrane to be easily installed onto the walls compared to traditional methods. The self-adhesive qualities meant that savings were made by eliminating the need for flashings and other

sealants around the windows and doors. Wraptite-SA airtight membrane prevents lateral air movement enhancing the buildings thermal performance. It also provides high vapour permeability in a continuously sealed, self-adhered, airtight membrane. In this instance, a result of better than 2.5m³/m²/hr was achieved.

01250 872261 www.proctorgroup.com

enq.167

Armstrong Ceilings' new-look tile range



One of Armstrong Ceilings' most popular tile ranges is now set to be even more of a hit. Not content with having one of specifiers' favourite ceiling tiles in its portfolio, Armstrong has re-engineered the Ultima+ range to offer a host of enhancements. The next-generation Ultima+ range of mineral tiles and planks now

features an even brighter whiter smoother surface, with 87 per cent light reflectance to help achieve 16 per cent cost savings compared with indirect lighting. Durability, as well as aesthetics, is also enhanced with fully-painted edges, while the addition of a re-engineered MicroLook 90 edge detail enables a better fit and improved visual finish when used with standard or designer grids.

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enq.171

Style and substance, achieving more than just waterproofing with Soprema

Creativity and innovation are reshaping entire industries. The rapidly growing creative economy, and ever increasing demand from UK and EU construction regulations and carbon reduction targets, provide far greater architectural challenges, no matter the project. With so many considerations to be made, the requirement for technologically advanced construction materials is rapidly growing.

One of the many challenges faced in modern construction is the sourcing of materials that are not only fit for purpose in a functional sense, but that also contribute to the design and aesthetics of a structure to allow for greater architectural freedom.

Technological advances in waterproofing membranes have revolutionised design and reduced boundaries that could limit the design of a structure. In response to the growing necessity for waterproofing products that retain the spirit of traditional materials, yet accommodate modern methods of construction and design, Soprema has developed a new and extensive range of hybrid waterproofing systems.

These systems create a seamless barrier to water ingress and penetration, yet also contribute to the aesthetics of a structure, providing specifiers with solutions that rival conventional specifications. With three different waterproofing ranges available: cold applied liquid, synthetic and bituminous, each compatible with the other, Soprema have a waterproofing solution for even the most challenging and complex designs.

As a part of Soprema's innovative offering; its best selling Copper and Silver Art synthetic waterproofing



Copper Art - Baptist Church, Essex

systems are in more demand than ever, with an increasing number of projects specified, each with their own individual motive and purpose for the Copper and Silver Art systems to be installed.

From Church Cupola to international sports facilities, the creative liberty these products provide while also providing the functionality and beauty of traditional materials is unrivalled.

Further information is available at www.soprema.co.uk or call **08451 948 727** to speak to a specification consultant regarding how these innovative waterproofing systems can benefit your project

enq.172



Copper Art – Residential property, Huddersfield



Silver Art – Velodrome, Italy



Copper Art – National Outdoor Centre, Northern Ireland

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enq.174

If Carlsberg made buildings...



When Carlsberg UK built an extension to the bottling plant at its brewery in Northampton it wanted the new building to stand out externally as a great building. A major contribution to this aim was made possible by the choice of Rockspan and Europanel stone wool core cladding panels manufactured by Eurobond Laminates.

Yorkshire-based Caddick Construction won the contract to design and build the bottling hall and used a combination of panels in five shades of green – light at ground level to dark at roof level.



'Carlsberg UK wanted the new building to stand out externally as a great building. A major contribution to this aim was made possible by the choice of Rockspan and Europanel stone wool core cladding panels'

The 7,000m² expansion, within the Northampton Waterside Enterprise Zone, enables Carlsberg UK to double its production of brands including Carlsberg, Carlsberg Export, Carlsberg Special Brew, Tuborg, Skol, Holsten and San Miguel beers. The facility can produce a staggering 60,000 bottles of beer per minute – ten million per year. It also has a number of windows built into its side where people passing by can see bottles progressing through the factory.

enq.175

*Call Eurobond today on
02920 776677 or visit
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Five shades of green Rockspan and Europanel deliver a stunning visual feature to Carlsberg UK bottling plant

Kawneer systems help deliver an NHS record



Glazing systems from leading architectural aluminium systems supplier **Kawneer** feature generously in the biggest single investment in North Staffordshire health-care in the 155 years of the NHS. Kawneer's AA*100 dry-jointed curtain walling with 50mm sightlines and

ACS windows feature on Phase 2 of the £215 million redevelopment of the estate of University Hospital of North Staffordshire NHS Trust. Off-site construction methods were brought to bear on the installation of the Kawneer windows as they were pre-glazed and fitted to pre-cast concrete panels on site prior to them being lifted into position. This not only eased access requirements but allowed the building to be sealed more quickly, enabling follow-on trades to start earlier.

01928 502500 www.kawneer.co.uk

enq.176

Precision engineering inside and out at college



Woodlands Campus new Engineering and Construction facility at Solihull College incorporates a state of the art specialist centre for multi-craft, bricklaying, painting and decorating, plastering and carpentry, and an expanded motor vehicle training facility. The development is clad in aluminium Ziplok in a striking white and dark grey combination on both roof and walls, with an unusual 'cranked' roof to wall junction which complements the precise geometric appearance of the buildings. In addition to the Ziplok, the development features **RigiSystems** Lokfaçade 300 installed horizontally on the gable ends of the building. For more information, please contact RigiSystems.

01905 750500 www.rigisystems.org

enq.177

Berry Systems cladding for new Southwater car park



A key feature of the Southwater Regeneration project in Telford is the construction of a 600 space multi-storey car park with potential for expansion by a further 350 spaces in future years. Associated Architects of Birmingham discussed the cladding requirements with car park specialists **Berry Systems** at an early stage in the project's development.

This enabled Berry Systems to demonstrate its 'in depth' expertise by designing a cladding system that met the pedestrian loading requirements of BS 6180 and so removed the need for additional pedestrian handrailing on interior faces. The expanded metal mesh cladding was then produced and installed by Berry Systems' own team for contractor Morgan Sindall. The company also installed vehicle safety barriers at the split levels inside the car park from its extensive range of floor and column mounted barrier systems. Installation was completed in April 2014 in good time for the planned August launch event for phase one of this £250 million project.

Berry Systems designs, manufactures and installs car park cladding systems, vehicle safety barriers and complete modular car parks from its base in Bilston, near Wolverhampton. It is part of the Hill and Smith Infrastructure products Group.

01902 491100 www.berrysystems.co.uk

enq.178

EQUITONE fuses nature and nostalgia



A fibre cement **EQUITONE** [natura] façade from **Marley Eternit** on The Festival Hall in Erl, Austria, has created an architectural fusion between the sites impressive mountainous setting and neighbouring historical building. The lightweight yet strong properties of the **EQUITONE** facade, which allow the

creation of complex, geometric forms, enabled the architects to create an angular design that remained sympathetic with the topological landscape. **EQUITONE** is a sustainable and low maintenance exterior rainscreen façade material that combines excellent aesthetics with durability and impact resistance. It is available in a wide range of colours and finishes, including an anti-graffiti coating.

01283 722588 www.equitone.co.uk

enq.179

Smooth finish at King's Cross Square



Knauf Marmorit's Pico fine render has created a bright, smooth weatherproof appearance to the canopy of the new entrance to the London Underground at King's Cross Square. Some 350 m² of bright white Pico mineral finish render was applied to the soffits of the

building's roof structure as part of a system which comprised Knauf's Aquapanel Exterior carrier board fixed to a Protektor suspended system and coated with Knauf Marmorit's SM700 multi-purpose adhesive and basecoat. A reinforcing mesh was applied prior to the application of the 0.6 mm grained Pico render finish. Water-repellent, vapour-permeable and weather-resistant, Pico is available in some 230 colours from Knauf Marmorit's extensive Color Concept range.

0117 982 1042 www.marmorit.co.uk

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Creating healthy spaces – signed RENSON®

RENSON® aims to create a healthy, comfortable and energy efficient indoor climate using natural ventilation and sun protection. Natural ventilation maintains the good air quality, while the external sun protection controls the solar gains all year round. Take a look at some novelties in ventilation and sun protection

Self-regulating window vent

The Invisivent®EVO HR provides the ideal solution for wind-impacted applications such as high-rise buildings (up to 1200Pa) and apartment buildings on the coast. It contains sound-damping foam that muffles external noises as much as possible. Three possible levels of sound insulation (Basic, High or Ultra) can be reached. In addition, the rain cap, which is mounted as standard, ensures perfect water resistance in even the most extreme conditions. Extra mounting screws and clips guarantee satisfactory stability and sturdiness of the entire window. This self-regulating thermally broken flap ventilator, installed above the window frame, offers a maximum airflow of 15.9 l/s/m at 2Pa and a sound reduction in open position up to 42dB.

Dynamic sun protection

Cilium® is a dynamic sun protection system in aluminium, that can be transformed from a vertical sun protection system in front of a window to a horizontal, open position above a window. This solution limits the overheating of buildings during the warm summer months and minimizes the use of artificial cooling systems. During the cold winter months the low position of the sun allows the warm rays to enter the building under the retracted folding shutters, which limits the use of artificial heating. This Cilium® can be discretely integrated in exterior walls with identical cladding or as a separate element constructed in front of a window. Cilium® is available as standard in two versions: with Sunclips® SE.096 or Sunclips® SE.130 blades.



Contact Renson today on **01622 754123**, email info@rensonuk.net or visit www.rensonuk.net

enq.182

GEZE adds a touch of colour to door closers



GEZE UK, a leading manufacturer of door and window control systems, has reported a growing trend for special finishes on covers for overhead door closers. The company's comprehensive range of overhead door closers are all available in a variety of different cover shapes and finishes including traditional silver, RAL, satin stainless

steel, polished stainless steel and EP polished brass as well as special finishes such as bronze, pewter or a variety of different colours. While stainless steel remains the most popular of its standard finishes, bronze, dark bronze and polished finishes are all growing in demand as architects and specifiers look to match the closers with other architectural ironmongery used throughout a project.

01543 443000 www.geze.co.uk

enq.183

MACO appeals with fully interactive AR app



2014 FiT Show in Telford on 10-12th June 2014 gave MACO UK another perfect opportunity to showcase its extensive product offering for the UK door and window markets. Using iPads, this provided the perfect tool to demonstrate its fully interactive AR augmented reality app, a show

reveal for MACO UK. The MACO app is free to download from either the Apple store or the Google Play store and takes the user on a detailed journey of a MACO UK specific door lock. Using augmented 3D reality images the user can fully interact – they can twist, turn and explore the lock inside and out, using MACO hotspots to read further information or explode the lock case.

01795 433900 www.macouk.net

enq.184

First large scale commercial project in Rehau Nordic Design Plus manufactured and installed



Crest Nicholson's Centenary Quay development in Southampton is the first large scale commercial installation in the UK of REHAU's Nordic Design Plus outward opening, externally flush fitting PVCu composite casement windows. More than 1,000 windows manufactured by Solar Windows, the first fabricator in the UK to start manufacturing in Nordic Design Plus, have been installed on the latest phase of the development which includes one and two bedroom apartments and three bedroom homes.

The project includes a mix of top hung outward opening windows and door combinations in the Nordic Design Plus system and flush fitting windows in the REHAU TOTAL70R fully reversible system. Flush fitting Nordic Design Plus windows were chosen to match the slim sight lines of aluminium timber composite windows which had been used at an earlier phase. Virtually maintenance free and offering U-values of 1.4 W/m²K when double glazed, the solution offered an attractive, efficient and cost effective alternative. Nordic Design Plus is extruded in REHAU's fully recyclable RAU-FIPRO® fibre composite material but has a coextruded outer layer all the way around which is made from high quality RAU-PVC.

01989 762600 www.rehau.co.uk

enq.185

K2 Capella's modular options are just the job



Paul of Paul Jackson Conservatories wanted to know what orangery solutions would allow him to present his customer with something innovative. It just so happened that two new upgrade options had been recently introduced to the K2 (a division of Synseal)

Capella orangery: an internal full-height plasterboard soffit, for that true orangery look; and the already popular aluminium fascia and optional decorative pilasters which had been adapted from the best-selling Global Summer to fit onto the K2 hybrid orangery system. The installed Capella measures 6m x 4m and features a brick dwarf wall designed to seamlessly match the Georgian style property. "Our customers were over the moon with the end result," said Paul.

01623 443200 www.synseal.com

enq.186

VBH adds Glazpart Link-Vent to range



VBH has added the Glazpart Link-Vent to its selection of ventilators. Available in two sizes, 2500EQA and 5000EQA, the vent meets the requirements of Building Regulations Approved Document F1, and delivers similar performance to that of much larger vents, meaning more air

throughput per mm. The design of Link-Vent's internal opening flap allows the flap to be positioned to reduce draughts by directing air away from the occupants without reducing the air flow. Link-Vent is available in Screw fix or Clip fix variants. As well as the industry-standard white, brown, tan and black colours, it can also be supplied in five printed or foiled wood grain finishes and a host of colours.

01634 263300 www.vbhgb.com

enq.187



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enq.189

Metal Technology improves CityView's outlook



Metal Technology window, door and curtain walling products have been installed at the City View office scheme in Aberdeen. Metal Technology's System 4-35 Hi+ Thermal Thermally Enhanced Casement Window offers the designer a range of profiles that

provide structural integrity, weather performance and security. When installed in conjunction with the correct glass specification, the system exceeds the latest thermal requirements of current building regulations. City View's aesthetic appeal is enhanced by Metal Technology's elegant curtain walling. System 17 Capped and System 17 Latitude are designed for expansive high-rise applications and offer a variety of powder coated finish options, providing a striking visual impact.

028 9448 7777 www.metaltechnology.com

enq.190

Thermal upgrade - inside the box



A. Proctor Group's Spacetherm Blanket has been installed in a unique office construction in Dundee, which consists of 37 recycled shipping containers. The first of 10 buildings for 'early stage' creative companies in the heart of Seabraes Yard has 15 lettable office units over three floors. The building has a striking appearance – 36 containers with one turned on its end to form the entrance lobby. Each unit provides comfortable furnished space for up to four people. Spacetherm Blanket, with a thermal conductivity of 0.015 W/mK, offered a flexible yet robust insulation blanket solution for this space-critical application. Its flexibility and ease of use was proven as the insulation material of choice in this application.

01250 872 261 www.proctorgroup.com

enq.192

Capital performance from Kingspan TEK®



The Kingspan TEK® Building System and Cladding Panels have been installed, along with several products from Kingspan Insulation's premium performance Kooltherm K-range, on London's largest Passivhaus development: The Greenhouses in Sulgrave Gardens, comprising of a row of

three-storey terraces (Block A), two five-storey apartment buildings (Blocks B & C) and a further four mews houses with roof terraces (Block D). Kingspan TEK Building System was specified for the external walls of Blocks A and D and Cladding Panels were installed on the concrete frame of Blocks C and D. Both products were designed and pre-cut to the requirements by Kingspan Timber Solutions, ensuring a predictable installation with minimal on-site waste.

01544 387 384 www.kingspantek.co.uk

enq.191

Bostik Climatherm external wall insulation



The BBA certified Bostik Climatherm external wall insulation system offers the quality and performance expected from Bostik, along with a selection of different finishes and a comprehensive training scheme. The system offers important benefits to housing associations, local authorities and other organisations looking to undertake energy efficiency refurbishment projects. It is supplied through a distribution network

with nationwide coverage allowing easy local procurement to offer flexible supply and reduce on-site storage requirements. The comprehensive Bostik Climatherm training scheme allows installers to ensure their staff are fully competent in assessing projects and fitting the system. BBA certification means that it is approved for product performance and customer protection.

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It's time to put fabric first

According to Peter Wilcox, technical manager at insulation specialist Recticel, the construction industry has a problem

It's a problem that affects us all – whether designers, contractors or occupants – new buildings aren't meeting their designed energy efficiency targets. The shortfall is known as the performance gap and various studies into why 'as-built' doesn't live up to 'as-designed' have resulted in some common observations applicable to all building types.

The assessment model – whether SAP or SBEM – predicts the energy consumption of a building and demonstrates regulatory compliance. Both models are a 'one size fits all' solution, so naturally include assumptions and generalisations. This highlights the importance of assessors using the calculation software being competent and the accuracy of the input data.

The biggest fault of assessment models is that they don't account for 'unregulated energy', such as plug-in devices, domestic appliances or commercial IT/communication equipment. Identical buildings with identical results could be used in different ways, resulting in very different energy use and running costs.

Another fault of the assessment is that it is not used early enough in the design process, so the calculations only highlight issues when detailed design is complete and changes are harder to incorporate, leading to possible compromises on-site.

Design should be simple enough to be delivered on-site without improvisation. Complex, hard-to-insulate features will

leak warm air, but balancing simplicity and aesthetics can be difficult. Planning authorities might expect a project to be in keeping with a local vernacular. If that style precludes better energy efficiency, is it an acceptable compromise?

Speed of construction is often emphasised over the quality of construction, and training of site operatives is not focused on energy performance. When sub-contractors change the work of the main contractor – particularly where it affects insulation and airtightness membranes – whose responsibility is the making good?

The scope for building control and approved inspectors to monitor work is limited, while architects have no contractual means of forcing through changes on-site.

CE marking of building products has levelled the playing field for laboratory testing and performance declaration, but results may not correspond with in situ performance. Climate is a factor that can influence the performance of buildings on a site-specific basis. For services, the perfect example is a tangle of flexible ducts that restricts air movement and causes them to achieve nowhere near the intended level of performance.

Poorly communicated product substitutions can also cause problems. Stockists may not carry the full range, so the contractor accepts an alternative, which doesn't perform at the same level.

The RIBA Plan of Work 2013 has a stage called In Use,

Continued overleaf...

Various studies into why 'as-built' doesn't live up to 'as-designed' have resulted in some common observations applicable to all building types'

Peter Wilcox



'The fabric first approach is about ensuring that insulation is reasonably continuous throughout the building envelope and that air permeability meets reasonable limits'

which requires as-built information to be updated in response to client feedback. A period of monitoring should highlight whether waste is occurring due to flaws in the building design, construction or commissioning of services. Understanding the finished product creates the opportunity to improve assumptions and predictions. Without that opportunity, designers will continue producing flawed solutions or, conversely, fail to recognise positives that can be incorporated into future projects.

The need for better communication

Long before such monitoring can be considered, addressing the performance gap begins with the design brief. Clients must communicate their expectations of quality and energy performance to the architect, while the architect needs to demonstrate the efficiency benefits of their design to the client and planning authorities.

Communication to the contractor is also vital for set targets to be met and to ensure that any specification changes are appropriate and accounted for in the assessment model.

Part L 2013 (England) and 2014 (Wales) are assisting designers with a positive first step toward change. As in Scotland, notional dwelling specifications emphasise low U-values and good airtightness, but give designers flexibility to achieve the best solution for a project.

The idea is to achieve an efficient building fabric that will last for the life of the building, rather than offsetting poor

U-values with costly renewable technology such as heat pumps or arrays of photovoltaic panels.

In England, along with the familiar Target Emission Rates (TER), new houses must also meet a Target Fabric Energy Efficiency rate (TFEE) performance standard.

As U-values reduce, thermal bridging becomes responsible for a greater proportion of overall heat loss. Linear thermal bridges – window reveals, junctions of building elements etc. – contribute around 30 per cent of heat loss from an otherwise well insulated property.

Simple design minimises the number of junctions and therefore, potential heat loss. Buildability is important too: difficult-to-construct junctions are more likely to suffer discontinuity of insulation and compromise the finished building's performance.

The fabric first approach is about ensuring that insulation is reasonably continuous throughout the building envelope and that air permeability meets reasonable limits.

The Passivhaus standard operates on this basis, offering savings of up to 90 per cent on space heating costs. That standard is not realistic for every project but continuous insulation is proven to work, if done correctly.

The performance gap affects us all and we can all contribute to the solution. Taking a responsible, thoughtful and collective approach to basic construction principles will make a difference and provide future generations with quality, efficient and healthy buildings.

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Kingspan takes school to the next level



When a rise in the local population forced Caldmore Community Primary School to double its intake of pupils, architects were faced with the challenge of extending the building in the already limited school grounds. Kingspan OPTIM-R formed a key part of

the solution, ensuring a smooth transition from the first storey classrooms to an outdoor 'play deck', without compromising either space or thermal performance in the rooms below. The play deck sits on the roof of the lower level corridors and ancillary rooms and to minimise heat loss from these rooms without exceeding the height threshold of the classroom floors, a Kingspan OPTIM-R Roofing System was specified along with tapered Kingspan Styrozone H 350.

01544 387 384 www.kingspaninsulation.co.uk

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news bytes

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

Aquair Water to Air Space Heater Units bring school's heating system into the modern era...

Ref: 71351

Promat HPI launches new fire-place and stove insulation solution at Hearth and Home...

Ref: 72970

'Role of gas heating innovation in a changing policy environment', House of Commons 12 May...

Ref: 72006

Rapid water heating at Olympic venue...

Ref: 73553

Pegler Yorkshire supports BIM initiative



Pegler Yorkshire, a market leader in the plumbing and heating industry, is furthering its reputation as a solutions provider by offering a selection of its products in the BIM system. BIM is designed to allow architects, designers and contractors to create, design and specify a whole range of buildings using digital representation, irrelevant

of size or stature. "We are in support of this new initiative which will enable our customers to easily specify products for their projects," said Phill Jackson, marketing and business development director. "Pegler Yorkshire's own INSIGHT online tool offers a step by step guide to choosing the most appropriate system encompassing jointing and pipe works choices in a variety of situations."

0844 243 4400 www.pegleryorkshire.co.uk

enq.199

Vectaire's new catalogue



Vectaire's new catalogue details its range of high performance, low energy, economical, residential ventilation units with EC motors. It describes Whole House Heat Recovery Units which control condensation and pollution by providing low level, continuous ventilation in up to seven rooms (installation in lofts, cupboards or ceiling voids) with up to 93 per cent heat exchange efficiency. Also shown is the WHHR Mini DC (for small dwellings, hotel bedrooms, student accommodation etc.) and the slimline Microbox DC, particularly suited for apartment installation. Finally, the Elegance and Elix are dMEVs available for installation into toilets, bathrooms, utility rooms and kitchens.

01494 522333 www.vectaire.co.uk

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Monodraught Cool-phase helps Ford's retail car showrooms go green

A new Ford retail car showroom and used car sales office, completed in January 2013, is equipped with Monodraught Cool-phase, a low energy cooling, ventilation and heat recovery system.

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

Commenting for Ford Retail Group, property manager Simon Page says Ford Retail has been examining various methods for reducing its carbon footprint across retail showrooms in the UK, where some of its largest running expenses are energy costs and one of the most significant is the ongoing cost of operating and maintaining mechanical ventilation and comfort cooling systems.



Monodraught was approached by award winning consulting and building services engineers Troup Bywaters & Anders, to provide a design for natural ventilation at the new build project in Runcorn. Following acceptance of the design, Ford proposed a meeting with Monodraught to discuss how the Cool-phase system would work and how it would benefit the Runcorn retail environment. During this meeting Monodraught proposed installing its Cool-phase system in the retail centre's used car sales office, to prove how effective it would be in reducing energy costs for comfort cooling.



In a bid to reduce energy costs, Simon Page had already explored various renewable energy solutions in previous projects, but needed to reassure colleagues that 'going green' was a viable option for dealers during a recession.

Says Page: "While the objective is laudable in green terms, there is also a strong financial business case, particularly as profit margins are tight in the motor industry right now and any opportunity to mitigate our property costs is very welcome."

To find out more visit the website www.monodraught.com

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MelcoBEMS simplifies connectivity and control



Mitsubishi Electric has launched an air conditioning interface that is compatible with the majority of Modbus and BACnet BEMS products. The MelcoBEMS unit works across the full M Series, Mr Slim and City Multi air conditioning ranges to provide full control of up to 50 individual systems and allows the systems to link to third party energy meters. MelcoBEMS

is fully compatible with Cylon; Satchwell; Creston; Invensys; Interactive Homes; North BT; Andover; Siemens; WEMS; Andover Controls; York BMS; Siemens; Priva Building Intelligence; Delta Controls; RDM. In addition to full control, the unit can also monitor indoor daily and monthly kWh when used in conjunction with an EB-50A controller and PAC-YG60MCA pulse meter interface.

01707 282880 www.airconditioning.mitsubishielectric.co.uk

enq.205

Hethel excellence extends to ventilation design



The £5.4 million Hethel Advanced Manufacturing & Engineering Centre in Norfolk is using natural ventilation designed and supplied by **Gilberts of Blackpool** to help air the low carbon building containing 16 workshops with adjoining first floor

office space. Gilberts met the brief by designing over 50 of its WH50 high performance louvres with interface detail for the ground floor, drawing fresh air in at low level, and extracting it at high level via the rooftop penthouse terminals. Its natural ventilation strategy uses a combination of passive stack and cross flow ventilation on the two floors of the building. Boost fans and acoustic splitters ensure air quality without noise transfer is maintained throughout the building.

01253 766911 www.gilbertsblackpool.com

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Project shown: Monkton Combe School. Architect: Nick Shipp

The sound of Innovation

enq.208

Aquair bring school's heating into modern era



Six **Johnson & Starley Aquair S-20** Water to Air Heat Interface Units (HIUs) have been installed at the Edinburgh Dome, an unusual Grade 2 listed sports hall at Malvern St. James Girls' School. They have replaced the original warm air heating system

that was installed some 36 years ago. Aquair water to air heat exchange units are available with heat output of 10, 16 or 20kW at a hot water on temperature of 80°C. For energy efficient operation and accurate delivery of heat, a modulating control is incorporated. They also feature a standard air cleaner that helps to keep the air free from particulates. With the Aquairs installed, the Dome is much warmer, and heating bills will be reduced as the Aquairs are up to 25 per cent more energy efficient than the old heating system.

enq.206

news bytes

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

ROOM: inside contemporary interiors – 10 curators choose 100 contemporary interiors...

Ref: 73878

Shortlist of rising talent is announced by the Society of Light and Lighting...

Ref: 77079

Upstairs downstairs: Brits bringing bedrooms to the bottom floor...

Ref: 76207

Prices and striking interiors revealed for homes within Battersea Power Station...

Ref: 80192

Add the 'wow factor' in small bathrooms



It's often the smallest room of the house, but in Britain we take that idea literally with the smallest average bathroom size in Europe. Therefore it's worth considering practical ways of actually saving space. Thanks to their slimline design, **Multikwik** Sanitary Systems frames offer complete design freedom to maximise bathroom space by saving vital centimetres and hiding all the pipework. The range includes 820mm, 985mm and 1185mm frames and features a module for all the various bathroom fittings, including

WCs, urinals, bidets, sinks and fittings for special needs, so it is possible to design a bathroom for any customer. Contact Multikwik to find out more.

01622 852654 www.multikwik.com

enq.209

Caledonian's 'superloos' save space



Caledonian Bathroom Pods (CBP) have provided bespoke, space saving 'superloos' to Argnet's Grade 'A' office space in central Manchester at One St. Peter's Square (OSPS). Some 162 pods, a mix of individual WC, showers and accessible WC facilities, slot in

between the core walls of the structure on each floor level of this 268,000 sq ft building. CBP offer a turnkey, fast installation solution as a full suite of pods can be craned in and positioned in a day to a single floor. The pods' water and energy saving specification contributed to the BREEAM Excellent rating.

01636 821645 www.caledonianbathroompods.com

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enq.212

Concrete effect tiles



Synthetic is a brand new range from Solus Ceramics that interestingly blends some of the colours found in traditional terracotta tiles with the contemporary textures of cement. The range features six chalky colours including beige, grey and taupe, and is available in six versatile sizes. Synthetic is the perfect marriage

of rustic charm and urban chic. Synthetic is characterised by natural imperfections and beautiful stains which gives any space with a warm, elegant and welcoming atmosphere. The tiles will provide an immediate 'lived in' effect and also possess an incredibly tactile surface. Samples are available on request.

0121 753 0777 www.solusceramics.com

enq.213

New fireplace and stove insulation solution



At the 2014 Hearth and Home exhibition visitors were given the opportunity to see the new PROMAFOUR® system launched by Promat UK's High Performance Insulation (HPI) division. The company used the exhibition to unveil this new high performance insulation solution for cassette

and inset-type fireplaces. The PROMAFOUR system includes various components such as the calcium silicate and cement-based insulation boards, plus joint filler, glue, fixing studs and primer. These components can be combined to create casings against brick or timber walls, and even around free-standing stoves, making the system ideal for both new-build and refurbishment projects.

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Tarkett chosen for Teenage Cancer Trust unit

A pioneering unit for treating teenagers and young adults with cancer has been colourfully fitted out with Tarkett flooring. The unit at University Hospital Southampton NHS Foundation Trust was designed to create a space as comfortable as possible. Featuring six en-suite bedrooms, a four bed day unit, social space and support facilities, the bright and engaging décor of the centre was created using a variety of Tarkett flooring. Architect and project leader Mark Maffey from Studio Mode said: "Suddenly finding yourself in hospital can be a disorientating experience, particularly for young people, so for that reason creating a safe and welcoming space was essential." Bright and colourful flooring was chosen for the treatment areas and calmer, wood effect flooring chosen for areas of rest and relaxation. The Tarkett flooring used included iQ Optima in Yellow, Medium Blue and Green, iQ Eminent in Turquoise and Acczent Excellence 80 in Bamboo. Tarkett's iQ range is a hard-wearing, durable floor with a huge spectrum of colours, patterns and effects that allows designers and specifiers the opportunity to get creative in a variety of environments.

01622 854040 www.tarkett.co.uk

enq.217



Interface designs adapt at Imperial Tobacco

Interface carpet tiles have been fitted in the development of the Imperial Tobacco head quarters in Bristol, using the manufacturer's unique glue-less installation system. TacTiles™, small adhesive squares placed in the corners of each carpet tile, seamlessly connect the tiles to each other, rather than the subfloor, creating a secure floating floor. Rhiannon Thomas, senior interior designer at AWW Architects, said: "As partitioning systems have been used to create individual offices in the open plan areas, Imperial Tobacco needed semi-permanent flooring designs that could be changed to reflect a change in size or layout in the future." As a more flexible alternative to spread adhesives, TacTiles allow carpet tiles to be easily removed and relayed. Individual carpet tiles can be lifted and replaced with new or existing tiles, saving the end user time and money. The company also wanted a low environmental impact flooring solution, and by dramatically reducing the Volatile Organic Compounds, TacTiles offer a cleaner, more environmentally friendly alternative to other systems, without harsh, odorous chemicals.

01274 690 690 www.interfaceflor.co.uk

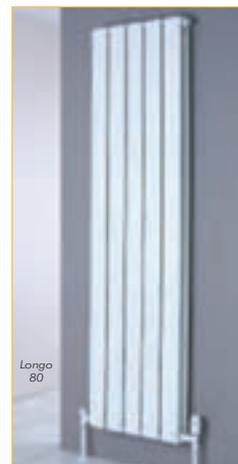
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Using modular balustrade systems in your designs

With modular solutions that increase efficiency and reduce carbon footprint, contemporary balustrade design is at the forefront of modern methods of construction. Jason Hensey, national sales manager at NEACO, explains the benefits of modular systems and the key considerations involved in the design process

Increasing site efficiency and safety while reducing environmental impact are the key objectives of modern methods of construction. They are primarily achieved by completing as much construction activity as possible off-site; with components already finished at the factory stage and quickly assembled on delivery, modular balustrade systems are ideal for that purpose. The precise combination of components, angles and dimensions is defined through consultation between the architect/designer and the manufacturer's technical support – therefore survey and installation is the only time spent on-site.

The impact to the existing site is significantly lower: 'dry works' installation involves less noise, dust, pollution and energy consumption than 'hot works' construction such as welding. Carrying out construction in more controlled factory conditions avoids on-site delays caused by adverse weather and enables better health and safety risk management, which is further improved with the avoidance of hot works on-site. A factory environment also enables superior quality control (with testing, prototyping and checking of uniform quality) and far better waste management – standardised finished components mean minimal waste materials and any offcuts are easily collected and reused or recycled.

Meeting performance demands

As well as improved environmental performance, the uniform quality of modular balustrades provides reliable performance in meeting building regulations. When choosing suppliers it is important to check that their systems are manufactured in accordance with BS6180:2011, which provides a comprehensive guide to the design, structure, height and strength of barriers. Balustrades must offer suitable horizontal, load-bearing capability for its particular environment – for example, in areas where people congregate without crowding, such as a stairs or corridors, it should bear uniformly distributed line load of up to 0.74kN/m, whereas restaurants and retail/public areas not subject to overcrowding and pedestrian areas in car parks require a load-bearing capability of up to 1.5kN/m.

Aluminium

Popular choices of material for high-aesthetic handrails and balustrades are aluminium, timber, stainless steel and toughened glass. Aluminium has a number of natural advantages: it

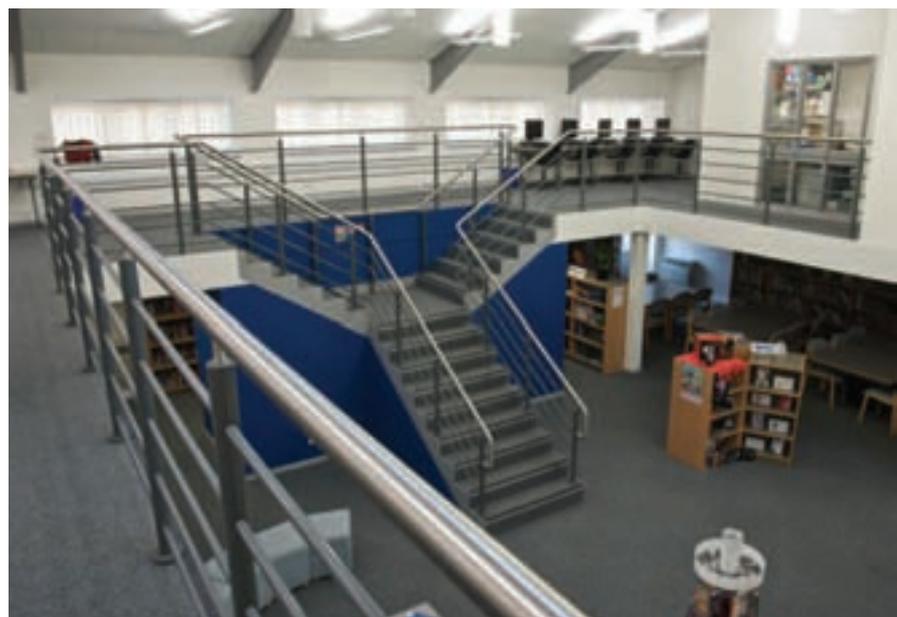
is lightweight yet durable, non-toxic, non-combustible and with time generates a protective oxide film coating with excellent resistance to corrosion. It is also 100 per cent recyclable, with no downgrading of its properties and very little energy is required for re-melting. It also has the ability to accept different surface finishes such as powder coating, thereby providing aesthetic versatility with RAL or metallic colours. Powder coating offers a maintenance-free, non-chip finish which is smooth, safe and warm to the touch. In extreme conditions, external metal handrails can become extremely cold and uncomfortable to the touch (BS6300 recommends that handrails should not be cold or hot to the touch) and the low thermal conductivity of powder coating addresses this problem.

Timber

The natural beauty of timber is an attractive aesthetic option, but a number of disadvantages are worth considering: ongoing treatment is required to maintain its appearance, prevent absorption of bacteria and control infection. Advances in powder coating mean that aluminium can now be finished with the detailed appearance of natural wood grain, providing the traditional aesthetic of timber without its drawbacks.

'Aluminium can now be finished with the detailed appearance of natural wood grain, providing the traditional aesthetic of timber without its drawbacks'

Continued overleaf..





Stainless steel

Stainless steel also provides a high-class appearance and, compared to timber, its aesthetic virtues are less compromised by practical disadvantages. It is extremely hard-wearing with no ongoing maintenance required to maintain its visual quality. Different grades suit different environments – for example, Grade 316 for external use and Grade 304 for dry internal use.

Structural glass

With no supporting uprights, structural glass is an ideal balustrade solution for maximum visibility and a minimalist aesthetic. To meet performance requirements free-standing structural glass must be toughened in accordance with BS EN 1991-1-1:2002 – the stronger systems on the market will offer load bearing capability of up to 1.5kN. A factory heatsoaking process can accelerate crystallisation, reducing the risk of potential breakages when the glass is in situ.

Help is at hand

Architects don't need to feel intimidated by balustrade design. With established expertise, services and procedures to back its products, a good balustrade supplier can provide technical support to help guide the design journey and a team of installers to ensure that a concept is realised with 100 per cent accuracy.

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Solving stock flow in a split-level storeroom



A Stannah Levelmaster low-rise platform goods lift proved the best solution for shifting boxes in the split-level storeroom of the Bromley outlet of Tiger Stores, a leading Danish retail chain offering a wide range of affordable homeware, toys, stationery, toiletries and accessories.

The Levelmaster unites two floors, moving goods over a distance of 1,055mm between ground level delivery and lower ground storage. Finished in durable black baked enamel (RAL 9005) with upper front-facing glass panels for visibility, the step lift brings robust service to a tough stock-handling environment.

Access on the upper level is via a space-saving, half-height, left-hand hinged door, with a double-

hinged swing door at lower ground level. Safety and grip during transit is further ensured via wall-facing, half-height chequer-plate sides and floor.

The Stannah Levelmaster carries a rated load of up to 2,000kg, and the lift is supplied in a self-supporting structure for quick, easy installation with the minimum of builders' work.

The Levelmaster was specified by Robert Walsh, project coordinator of HLP UK, a leading UK multi-disciplinary architectural services company: "We opted for the Stannah Levelmaster as it best suited the site's constraints. The Tiger Store is located within a busy pedestrianised high street with no frontal access for deliveries. Goods arrive through the shopping mall service yard at the rear of the building. The storeroom is split-level from the service yard and the lift had to be able to take palletted loads between two levels, a nominal but important distance when it comes to the management of frequent, heavy, bulky stock."

This is just the latest of eight Stannah lift installations across Tiger's UK stores, currently running at 29 but expanding fast.

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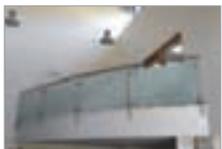
We can also offer a vast range of posted balustrades from budget, modular and mild steel to superb quality, fabricated stainless steel systems, to suit most budgets and lead times. With our modular systems, we can usually offer a very fast turnaround time.

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Hygienic handrails from SG Systems



SG Systems has further enhanced its Sentinel stainless steel and AL 50 aluminium range of handrail and balustrade systems, with the addition of a new handrail coating that has been specifically developed for healthcare and care home environments.

The new finish incorporates SteriTouch, an anti microbial additive which when added to the handrail coating provides an effective barrier against bacteria and hand borne germs such as MRSA, Ecoli and Salmonella. It is this protection that is becoming increasingly demanded by specifiers and facilities managers working within heavily trafficked areas such as hospitals, care homes, medical centres, doctors and dentists surgeries.

01473 240055 www.handrailsuk.co.uk

enq.227

Stair nosing specification tools



Quantum Flooring, a manufacturer of stair nosings, has created a number of complimentary tools that help the specifier choose the correct profile when finishing off floorcovering edges on stairs. Assistance in selecting the correct stair

nosing can easily be obtained from the handy 'Product Selector' on its website, the bespoke free Quantum Flooring app which can be downloaded from Google Play or iTunes, and the Quantum Flooring A4 Specification Guide – a comprehensive guide to all stair nosing in the range. Quantum Flooring offers over 80 different stair nosing profiles in the standard range and a number of accessories and transition profiles, designed to suit all applications in every market sector.

0161 627 4222 www.quantumflooring.co.uk

enq.229

New multi room audio system launches



Armour Home, a leading provider of premium products, solutions and services to the specialist hi-fi, home theatre and entertainment market, has announced the launch of its new digital multi room audio system. Systemline 7

(S7) is built into the fabric of the house and offers users fully integrated access to the widest available range of online music services on the market. It provides high quality audio in up to 24 separate, independent zones, offering fully integrated access to the widest range of network music services and built-in music file storage. The system is operated by the fastest, most comprehensive app in the marketplace. The Net Music app has been developed by Armour and has a simple interface, with 'Home' and 'Now Playing' screens etc.

01279 501111 www.systemline.co.uk

enq.228

Contemporary painted doors



JB Kind's ECO COLOURS door range has six new design additions for 2014. This contemporary range of fully finished painted doors offers an incredible price advantage. The doors are FSC® certified, with a selection of superb timber effect colours created by state of the art painting technology. Supported by a flexible bespoke options service, alternative design styles and finishes, decorative effects, special sizes, wardrobe

doors and matching frames/architraves can be made to order. FD30 fire doors are available as standard for solid designs and can be ordered for glazed models.

01283 554197 www.jbkind.com

enq.230

NEACO launch new stanchion designs for balustrade range



NEACO has added to the vast range of modular options available within its Spectrum balustrade range with the introduction of two attractive new stanchion designs.

Combining a stylish contemporary appearance with economical use of materials, the new Shape stanchion's defining feature is ovular shaping which is also applied to the infill clips. The top of the stanchion meets the top handrail with a minimalist stem connector. As well as providing an alternative aesthetic option, the inherent strength of the Shape design allows the stanchion centres to be maximised to help work within budget constraints. Infill options include toughened glass, rails, wire, mesh and perforated panels. The new Quad stanchion provides another alternative to tubular stanchions with a square design which also uses a stem connector to meet the top handrail. Quad is also economical in its use of materials and provides an offset glass infill option in addition to inline toughened glass, rails, wire, mesh and perforated panels.

Available in stainless steel or aluminium, the Spectrum balustrade range comes with a lifetime guarantee.

enq.231

Delayed door closing by LCN at Windermere Sheltered Housing



In sheltered housing blocks the individual apartment doors will usually be fire doors and so need to have some form of closer fitted. This is also a good idea for conservation of heating and security as well as fire safety but can create difficulties for elderly or infirm residents to open or negotiate, particularly with wheelchairs or Zimmer frames.

To alleviate these problems, South Lakes Housing decided to fit LCN door closers at its Birthwaite sheltered housing and extra care facility in Windermere. LCN door closers are supplied by Relcross Ltd and it was able to advise South Lakes on the best specification for their circumstances and the 1461 model, some with delayed action, was chosen.

One of the most attractive features of the LCN 1461, and a key requirement at Birthwaite, is the option for delayed action. This enables the door closing action to be delayed for an adjustable period of time up to a maximum of one minute before resuming normal closing. This allows slow moving traffic to pass through in safety and without disruption.

01380 729600 www.relcross.co.uk

enq.232

First choice. Last destination – Large capacity platform lift

Here at Axess 4 All we are never surprised at the number of different applications our clients come up with for our large capacity A8000 platform lift. We have a number of installations of the A8000 where the length of the A8000 means clients can move care home patients easily between floors, several more where the length of the platform and clear door width means light goods such as food trolleys and even clothing rails and roll cages can be accommodated on the large platform, but the most recent installation has really opened our eyes to the possibilities of this platform lift.

When we first launched the A8000 we thought the large capacity of 1,000kg would be the real selling benefit but now it seems the overall platform size of 1,405mm wide x 2,480mm long is really the big selling feature. With new applications coming in on a regular basis we thought we had seen everything until we had an enquiry for a coffin lift from a firm of funeral directors.

With the benefits of no lift pit, no additional headroom and no structural shaft required, the A8000 is ideal for existing and new build projects. Add that to the design and reliability of the A8000 and this really is a product for all applications.



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enq.233

Gartec features in BBC2's *Building Dream Homes*



Building Dream Homes follows some of the nation's architects leading the way in ground-breaking design, as they battle with builders, blueprints and the clients who hire them. Gartec were approached to supply and install a home lift for a future-proofed upside-down house featured in the show. The new build home was commissioned and project managed by Marianne Cowpe from Westra Nook, near Cardiff. Unfortunately, disaster struck in episode three as Marianne was rushed to hospital, leaving James Stroud of Loyn & Co Architects to take over as project manager. It became obvious that Marianne would be unable to walk when she returned from hospital so the installation of Gartec's Home Lift (Artico 6000) was brought forward to allow Marianne to inspect all levels when she returned from hospital. Consequently, episode four featured Gartec for much of the programme. The Artico 6000 lift was originally specified by Marianne and her husband as a way of future-proofing their home, to add an element of luxury until the time came that they might rely upon it. Who knew that time would come so soon? When Marianne entered the lift she commented: "What I'm worried about is; will it take all the wine?" Gartec can confirm Marianne will be good for up to 500kg!

01296 397100 www.gartec.com

enq.234

GATEMASTER gate closers



Renowned for their quality manufacture and reliability, GATEMASTER gate closers from Signet Locks can be fitted to metal and timber gates to ensure controlled and secure closing at all times. Local regulations on self closing gates vary so please check with the local authority before fitting these products. Experience in this field demonstrates that, when used correctly, these closers will reliably close gates for many years. GSB gas strut closers are top quality gate closing struts, ideal for closing gates up to 80kg. There is no need to release gas to reduce the spring force, just simply move the strut along the slots in the brackets to adjust the force exerted. The adjustable brackets also make the installation easy as there is no need to compress the spring when fitting it to the gate. It is ideal for both fitting to new installations and retrofitting to existing gates. APS hydraulic gate closers are hydraulically controlled with a top hinge kit that has been developed using proven technology to provide reliable gate closing. They are vandal resistant and suitable for gates up to 120kg. The robust closer unit is fitted underneath the gate, meaning it is unobtrusive, and this also acts as a load-bearing lower hinge. The kit includes a top hinge assembly which is fully adjustable to enable the gate to be positioned correctly after installation, with no power required.

01243 552066 www.signetlocks.co.uk

enq.235

Promat puts passive protection on display



This year's Firex International exhibition will give visitors an opportunity to find out about the products and services offered by Promat UK. It will be showcasing its comprehensive range on stand R805 and making visitors aware of the wealth of technical expertise and support which it is able to provide. For over 50 years Promat has

pioneered the development of products that range from fire protection boards and penetration seals, through to fire resistant glazing and spray products. These products are designed to comply with modern, stringent fire protection requirements, and coupled with the knowledge and expertise at its disposal this allows Promat to create proven, effective and fully-integrated fire protection solutions.

01344 381350 www.promat.co.uk

enq.236

Automist: the fire suppression solution



Automist, from Sussex-based Quenchfire, is a smart alternative to traditional sprinkler systems, being more cost effective, easier and quicker to install and suitable for various applications. It typically uses less than 10 per cent of water compared to a sprinkler system, minimising consequential water damage to fixtures, fittings and the fabric of a building. Tested and proven to be effective by BRE Global, it is an extremely low maintenance option, requiring only annual

commissioning to monitor the output pressure. It activates when fire temperatures are detected, using a fine water mist to lower the temperature and the accumulation of toxic gases, creating conditions that allow occupants to vacate safely.

01580 330082 www.quenchfire.co.uk

enq.238

Aico recommended by award winning Plumis



Aico's market leading Ei164RC mains powered heat alarm has been recommended by British manufacturer Plumis for use with its award winning Automist home fire safety system. Automist is a more convenient alternative to traditional sprinkler systems, in that it uses watermist technology to put out fires, using just five per cent of the water consumed by a traditional sprinkler system. Once triggered, a dense fog quickly fills the room. An

Aico heat alarm triggers the Automist system via a Relay Module. A heat alarm is ideal to use in this type of application as it is only triggered by high temperatures (58°C) rather than smoke, which means that Automist will not be accidentally triggered. The alarm was recommended due to its quality build, exceptional reliability and reputation within the market.

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news bytes

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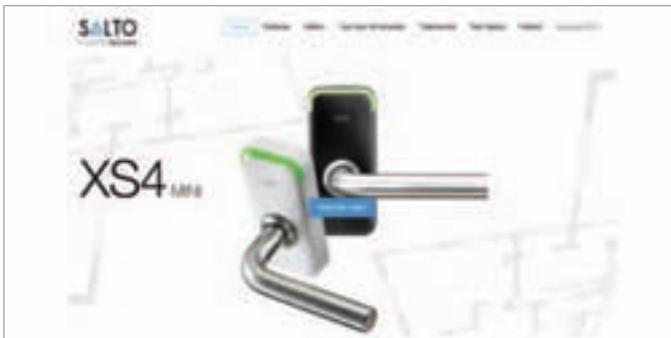
Jack Aluminium commercial Panic

Door achieves PAS 24 security...

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Automist: the fire suppression solution for modern, open plan living spaces...

Ref: 96357



SALTO Systems launch XS4 mini website

SALTO Systems has launched a dedicated website for its brand new XS4 Mini access control solution. The website has been designed to provide the ultimate user-friendly experience and allow visitors to discover everything about the new XS4 Mini. It allows customers to access detailed product information on this ground breaking new product. Using the latest technology and augmented reality, the website incorporates a handy 360° viewer allowing you to see a virtual preview of how the XS4 Mini product will look on a door from any angle. Its compact size combined with a modern LED aesthetic also marks a new design language from SALTO that the market will increasingly see in coming months. Designed to take building security to a new level, XS4 Mini enables users to secure and control any door quickly and effectively. Installing XS4 Mini couldn't be simpler, just remove the existing handle set and install, with no complicated retrofit required. More advanced than any other electronic lock on the market, XS4 Mini has been designed to cover security needs today and future needs tomorrow.

01926 811979 www.saltosystems.com/xs4mini

enq.239



London Mayor visits Kidde protected housing

Kidde customer and specialist student housing provider Rob Hunter, managing director of Place Group UK, is the first private landlord to be awarded Mayor Boris Johnson's 'London Rental Standard' badge of accreditation. The Mayor visited one of Rob's properties in Haringey to meet tenants and to hear about their positive experiences of renting from an accredited landlord. Rob was selected as the first private landlord to be awarded the so-called 'Boris badge' as a pioneer of accreditation and a vocal supporter of higher standards in the rental property industry. The new Standard is linked to the 'Housing Health and Safety Rating System' (HHSRS), which identifies both fire and carbon monoxide poisoning as primary risks and the importance of fitting appropriate alarms – already top of Rob's list of priorities. His company provides students with high specification, refurbished five and six bedroom shared HMO accommodation in traditional Victorian houses. In all his properties, original battery powered alarms have been replaced with Kidde's Slick smoke and heat alarms using wireless interconnect.

sales@kiddesafety.co.uk www.smoke-alarms.co.uk

enq.240

Kin Stone paving offers high-end quality



A&G (Acheson & Glover) has added to its extensive range with the outstanding, contemporary Kin Stone – a new bespoke paving product that will transform commercial and public realm projects. Ideal for creating variable and unique landscape designs due to

its premium finish, Kin Stone can be laid as a single colour or three colour blends. “Available in both grey and sandstone options, Kin Stone offers professional designers the opportunity to specify a high quality paving system that recreates the realistic tones of natural stone,” explained Marketing Manager Brian McConnell. “Made from locally quarried aggregates, Kin Stone’s surface is formed by blending fine quartz materials, resulting in a truly exceptional paving product.”

028 8952 1275 www.acheson-glover.com/kinstone

enq.241

Jeckells commissioned for WWII dome



Jeckells the Sailmakers has recently been commissioned by the North Norfolk Historic Buildings Trust to make acoustic insulation for the Langham Dome, one of six domes used in the Second World War to train anti-aircraft gunners that still exist today. The original plans for the dome specified a type of insulation called Cabor’s Quilt which was made from paper and seaweed. A solution was

engineered using a wallpaper outer sewn into strips with wadding and a mesh core to enable the insulation to be wired to an internal framework, and to conform with current regulations. The dome opened to the public on Sunday July 20th.

01603 782223 www.jeckells.co.uk

enq.243



M-Tray modular green roof system

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enq.245

TimberTech Reliaboard - to the Manor born



Luxurious, stylish and easy to look after – that’s Greensquares’ TimberTech Reliaboard to a tee and so it was perfect match play when global golf venue, five-star Celtic Manor Resort, sought high quality composite decking to highlight a series of luxury lodges for interna-

tional guests to enjoy. It was a natural fit for the contractors, Lodgico, who chose the natural-looking TimberTech Reliaboard in Cedar to match the lodge’s natural timber frames set against the magnificent backdrop of the imposing Usk Valley. “We were really delighted that Lodgico chose TimberTech cedar on the basis of being ahead of the competition for quality, look and easy maintenance,” said Jason Cole, managing director of Cardiff-based outdoor living authority Greensquares.

02920 803756 www.greensquares.co.uk

enq.242

Ultrascape restores train station entrance



Wandsworth Town, situated in South West London, has received major urban regeneration using the Ultrascape mortar paving system. The improvements to the station’s entrance and surrounding area were made using Pro-Bed HS bedding mortar, Pro-Prime slurry primer and

Flowpoint flowable grout. Making up Ultrascape’s renowned mortar paving system, the three products are proven to be BS 7533 compliant under UKAS testing methods. This British Standard promotes professional results that can give a minimum construction life of 40 years. What’s more, when using the system the paving can be opened to traffic four hours after grouting.

01827 871871 www.ultrascape.co.uk

enq.244

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enq.246

Street furniture: material choices for the modern urban environment

Appropriate material specification is essential for ensuring that street furniture can withstand the rigors of everyday urban use. Marshalls Street Furniture expert Violeta Diamanti discusses how choosing the right material can prolong the life of street furniture and reduce the need for expensive repair or replacement

‘Robust and hard-wearing it is ideal for urban areas where there will be frequent street cleaning or the threat of deliberate damage’

It is now widely accepted that quality public space in our towns and cities has a positive impact on the wellbeing of residents and visitors. Street furniture is an essential element in creating safe, useable and attractive spaces; seats and benches encourage social interaction, bins deter unsightly litter, cycle stands reduce traffic and encourage physical activity, planters provide habitats and help to green our streets and bollards provide demarcation and protect pedestrians from motorists.

However, the urban realm is a harsh and demanding environment and street furniture elements can quickly become damaged and tired looking, making an area unsightly and necessitating costly repair or replacement.

maintenance, design flexibility and value for money. While capable of exactly replicating the appearance of cast iron, this strong polyurethane offers so much more, with a wide range of benefits over the older material which is now rarely available from a UK foundry.

Products made from this material have a high chip resistance, making them ideal for heavily trafficked areas such as supermarkets and pedestrianised zones. This high level of durability results in low maintenance costs.

This lightweight material will not rust or corrode, a quality which has made it a popular choice at seaside locations where cast iron quickly rusts and requires regular costly maintenance, and often full replacement. In many of these cases throughout the UK cast iron has been used to replace these systems. A unique benefit of this material is that moulds can be created quickly and cost effectively by taking casts from the degraded cast iron products and producing exact replicas in polyurethane.

Concrete street furniture has become an increasingly popular material choice. Thanks to modern production techniques, it is not only tough but it is now possible to create stunning street furniture items of varying colour, finish and shapes.

Concrete street furniture will meet the demands of any landscape and will suit most budgetary requirements. It is extremely durable, will not rust or corrode, and well withstands the rigors of modern environments. Robust and hard-wearing it is ideal for urban areas where there will be frequent street cleaning or the threat of deliberate damage. Concrete weathers naturally and therefore requires minimal maintenance.

The raw materials for concrete are sourced from within the UK, unlike those for other construction materials which are often imported from thousands of miles away with all the resultant CO₂ transportation emissions.

Stainless steel's notably stunning aesthetic appearance, high corrosion resistance and mechanical properties make it ideally suited for street furniture. In particular the clean attractive finish suits modern spaces. If selected and maintained correctly this material will remain attractive over its required life cycle.

There are two important elements to consider when selecting stainless steel products; the grade and the finish.



For this reason it is essential that careful consideration is given to the material specification. Modern materials and production techniques mean that in order to achieve superior robustness you no longer have to compromise on aesthetic appeal.

Engineering grade polyurethane has become an increasingly popular material choice for a wide range of street furniture applications because of its looks, strength, high durability, low



The grade of stainless steel has a major influence on its performance and needs to be matched to the environment. The two main grades used most in street furniture products are 316 and 304. Grade 316 is suited to all areas, especially marine locations where high sodium chloride levels in the air can degrade other types of stainless steel. Grade 304 is more suited to urban locations where there is less risk of sodium chlorides contaminating the surface of the steel.

The influence of grade on the performance of stainless steel is fairly well known. However, it is not so well known that surface finish has an equally important role in determining corrosion resistance. Poor quality polished finishes can lead to disappointing performance of stainless steel, especially in

exterior applications.

If well maintained, corrosion is highly unlikely. As a result the metal can be fully recycled at the end of its life. Stainless steel has no down cycling no matter how many times the steel has been recycled. For those seeking 'green' materials to use in their projects, stainless steel should be a definite consideration.

Natural stone, in particular granite, is a popular material choice for street furniture. As well as being visually attractive, granite is an extremely strong and scratch resistant material. It is also resistant to staining and is impermeable, which ensures a product with a long life. Again, choose a reputable supplier who has a strict quality control procedure to ensure your product is of the highest standards.

Damage to street furniture is often caused by vandalism, whether willfully or by skateboarders or BMX bikers. However, measures can be put in place to deter and protect. Once a material has been specified, applied coatings and treatments can give further protection. For example, sacrificial polymer coatings are applied to cast stone to allow for chemical cleaners to be used to remove graffiti, without dulling the surface. Anti-skate detergents can be fitted to benches and furniture with a linear profile that is 'grindable' and steel can be polished and aluminium anodised to provide greater damage resistance.

Finally, choose a reputable supplier who has the expertise to assist you in choosing the right material and finish for your application.

'Stainless steel has no down cycling no matter how many times the steel has been recycled'

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