

October 2014

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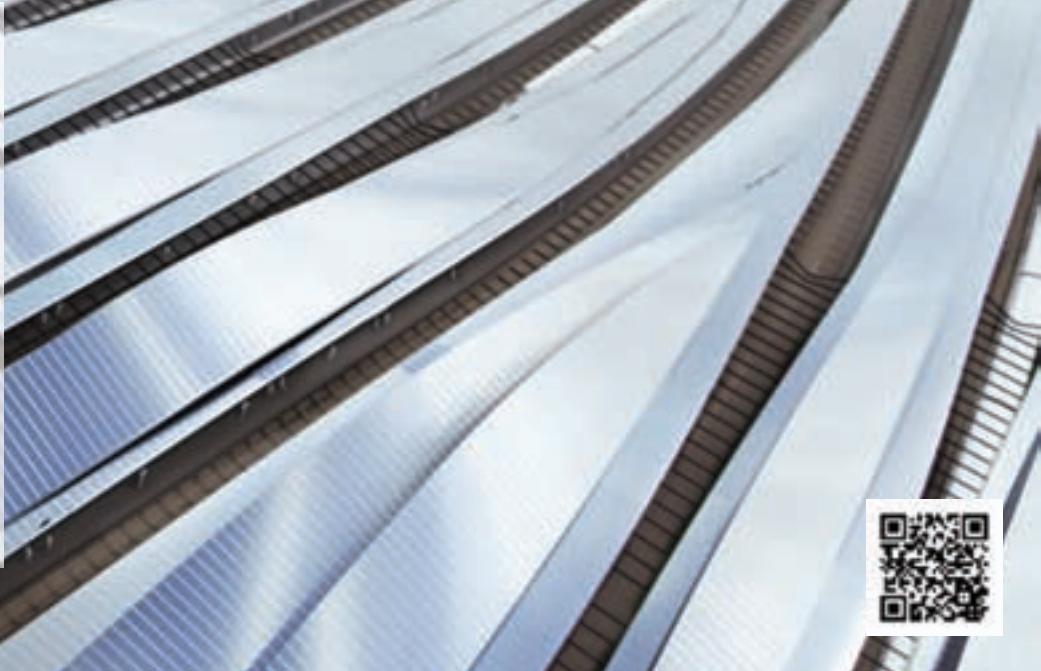


London Bridge Station

Theatre de Stoep,
Spijkenisse, the Netherlands

Haven House Children's
Hospice Annexe, Essex

Education Estates
show preview



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lighting (inc. switches & sockets)
roofing • safety & security
paving & external surfacing (inc. suds compliancy)

incorporating

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PROJECTS**



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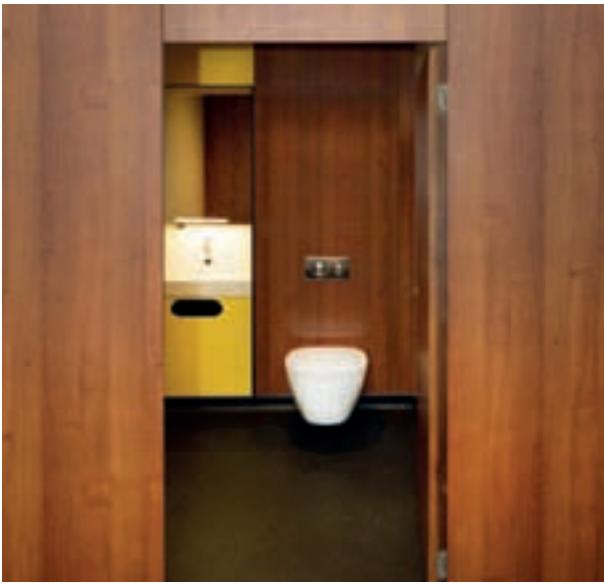
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IN-CUBICLE

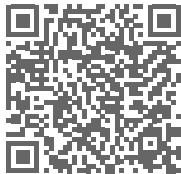


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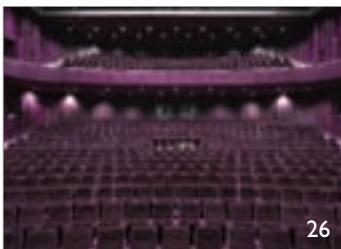
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reader
enquiry
401

adf contents october 2014

projects



19

A brave new world for London Bridge station

One of the capital's great historic railway stations is on course to become the well designed, attractive transport hub it should always have been. Ray Philpott explores the role of architecture in its renaissance

26

Theatre de Stoep, Spijkenisse, opens its doors this month

Ben van Berkel/UNStudio's follows the recent completion of the Theatre de Stoep in the Dutch town of Spijkenisse, and how the Municipality of Spijkenisse will celebrate the official opening of its new cultural venue

29

Clear Architects' Haven House Hospice annexe

An expanding childrens hospice proved to be a challenging – but ultimately rewarding – architectural project, writes Melanie Clear of Clear Architects

47

EXTERNAL ENVELOPE: ROOFING

Eight steps to the perfect roof

SIG Design & Technology's sales director Ross Finnie outlines how the 'perfect roof' can be built using a structured approach to roof design and specification

59

INTERIORS: LIGHTING (INCLUDING SWITCHES & SOCKETS)

Consumers drive evolution in wiring accessories

The importance of intuitive and custom design for wiring accessories
By Jason Ng, marketing communications specialist, MK Electric

65

SAFETY & SECURITY

Fire safety and legal responsibilities

Tom Welland, conformance & regulatory affairs manager at Fireco Ltd, discusses fire safety and legal responsibilities for architects

71

LANDSCAPING & EXTERNAL WORKS: PAVING & EXTERNAL SURFACING

Will SuDS legislation be put into place?

With the government now planning to hold a consultation to discuss where to go with SuDS, Andrew Gill, marketing manager of Brett Landscaping, wonders if and when any actual legislation will finally be put into place

features

news & events

4 Industry News

Events

CPD Focus

HEADLINES

5 The Landscape Institute announces awards shortlist

8 Gatwick's visionary airport design makes global award shortlist

9 3D Printer wins global design competition



33

products

16 Editor's Focus

34 Appointments & news

35 Planning & design

38 Groundworks

38 Structural elements

39 External envelope (incl. external fixtures)

50 Insulation

50 Heating, ventilation & services

53 Interiors

62 Disabled products & services

63 Safety & security

68 Landscaping & external works

75 Classified & directory



Cover image: London Bridge Project, © Grimshaw
See page 19 for details

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ADF apology

We wish to inform our readers that the images shown on page 39 of our Metal in Architecture supplement, September 2014, were not supplied by the Galvanizers Association. Any editorial connection between the Galvanizers Association and Wedge Group Galvanizing or Scottish Galvanizers was not intended.

RESTAURANT

Tengbom designs Kommendören restaurant

Tengbom's interior design studio has designed the new Kommendören restaurant in Stockholm's Östermalm district. The neighbourhood restaurant is inspired by the American bistro concept and opened its doors on Friday, 10 October.

Kommendören, at Kommendörsgatan 7, is the most recent addition for the owners of Vassa Eggen, Boqueria, Tennstoper and Albert & Jack's, all designed by Tengbom's interior design studio.

Tengbom's interior design studio is responsible for the restaurant's interior which seats about 60 guests in the restaurant and an additional 25 in the bar. Kommendören will be open for dinner seven evenings a week, lunch on Fridays and brunch on Saturdays and Sundays.

AWARDS

An office of the future and a cinema inspired by the past are among the winners of premier international interior design awards

INSIDE – World Festival of Interiors has announced the final category winners for their annual interior design awards programme. These complete the list of the nine winners who will go head-to-head tomorrow in live crit presentations to a distinguished panel of judges, in a bid to win the World Interior of the Year crown.

Clive Wilkinson Architects claimed the Office category award for their work with the Barbarian Group in New York. The office features an 'endless' table that enables the entire office to sit at one free-flowing circular desk. At key locations the desk rises to allow casual meeting spaces in grotto-esque areas under the table. Made up of 870 unique plywood panels, the table equates to a 4,400 sq ft surface.

A cinema in China that traces back the roots of filmmaking won the Civic, Culture and Transport category. CINE TIMES by One Plus Partnership Limited subtly reminds visitors of the origins of cinema, in an age where new technologies have rapidly changed the industry. Undulating walls symbolise film rolls with thin breaks reminiscent



of the breaking and reunifying of film, used in bygone editing processes.

In the Education and Health category, CRAB Studio took the award for their Abedian School of Architecture at Bond University in Australia. The bold design optimises spaces throughout the building to allow for relaxation areas and breakout work areas. The judges commended the project for adding a 'sense of theatre to an education environment.'

Another project in Australia was the recipient of the Creative Re-Use award: the Sustainable Industries Education

Centre – Tonsley Tafe. The project by MPH Architects and Architectus is a great demonstration of adaptive re-use on a major scale and was described by the judges as 'thoughtfully considered'. The new single-site facility is the combination of five separate campuses and features a layout based on flexibility and adaptability.

These four winners will join the category winners in presenting their projects to the INSIDE super jury. The winner of the World Interior of the Year will be announced at a gala dinner at the Marina Bay Sands, Singapore.



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AWARDS

The Landscape Institute announces awards shortlist

The Landscape Institute Awards shortlist has been announced – entries include Eastside City Park, Birmingham, Swansea Bay Tidal Lagoon and Battersea Power Station Pavilion and Pop-Up Park.

The Landscape Institute Awards are presented annually to encourage and recognise outstanding examples of work by the landscape profession. This year's shortlist was drawn from entries received from all corners of the UK and overseas. The depth and range of the entries in all categories is testament to the depth and innovation present in these schemes.

All projects entered for the Landscape Institute Awards, need to have been completed during the 10 year period to the end of June 2014, to be eligible for submission. President of the Landscape Institute, Noel Farrer will review all shortlisted projects to choose the recipient of the President's Award 2014.

The submitted entries span diverse categories, from small to large scale public and private projects and include: Adding Value through Landscape, Heritage & Conservation, Science, Management and Stewardship, Neighbourhood Planning, Strategic Landscape Planning, Urban Design and Masterplanning.

Among this year's shortlisted entries are the recently opened Tumbling Playground in the Queen Elizabeth II



Olympic Park, the Liverpool Central Library scheme – which features a new bold and visible entrance, and the South Pennines Watershed Landscape Project, which tells the story and history of the landscape through a number of exciting projects to re-engage the community with their environment.

Previous winners of the Landscape Institute Awards, have included groundbreaking projects such as Queen Elizabeth Olympic Park by LDA Design with Hargreaves Associates, Arup and Atkins, Beam Parklands by Arup and Gardens by the Bay, Singapore by Grant Associates with Wilkinson Eyre.

Now in its eighth year, the Landscape Institute Awards winners will be

announced by prominent Urban Revitalisation Strategist Majora Carter during a ceremony on 27 November at the Big Top, Bloomsbury in London.

Noel Farrer, President of the Landscape Institute said of this year's shortlist: "I have been taken aback by just how good the entries were. The shortlist features wide-ranging projects which start by re-acquainting people with their landscape and, through developing interest and desire, wake people up to the role that landscape can play in their lives. If we can achieve this for our body of work, and crawl out into the light, we will have moved our entire society closer to landscape."

news bytes

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IBI Group Transforms Accident and Emergency Department for Children in Oldham...
Ref: 99815

Teaming up to explore embodied carbon in Bristol...
Ref: 51548

Liverpool and Manchester to champion property investment projects at MIPIM UK...
Ref: 82291

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AWARDS

Science Central shortlisted for two property awards at MIPIM UK

Science Central, a 24-acre mixed-use development in the heart of Newcastle city centre, has been shortlisted for two prestigious awards at the inaugural MIPIM UK and Estates Gazette Awards in London.

Forming part of MIPIM UK, the first major UK property event to showcase regeneration projects to investors and developers from around the world, the awards recognise contributions made to revitalising cities and towns across the UK.

A team of judges shortlisted the country's best regeneration projects, acknowledging future projects, while paying tribute to the best schemes from the private rented sector.



BOOK

Liberty Style: the story of a British institution

The book features how Arthur Liberty shaped British and international taste in glass and metalwork, furniture, ceramics, fashion and textiles, and brought together generations of great designers.

It covers various phases of artistic taste, from the Aesthetic to the Arts and Crafts, from Art Nouveau and Art Deco to the Georgian revival:

- Features designers such as Archibald Knox and the Silver Studio, Lucienne Day, Bernard Nevill, Vico Magistretti, Dr. Christopher Dresser and Charles Voysey
- Over 200 colour photographs and illustrations
- An appendix of designers, manufacturers and suppliers known to have supplied Liberty's.
- The story of Liberty's is the story of design. The brand has been an international byword for style and innovation since May 1875, when Arthur Lasenby Liberty opened the doors of his Regent Street shop.



The son of a draper, Arthur Liberty (1843-1917) was inspired by the conviction that if he could only raise the capital to open his own shop, he could change the whole look of fashion in dress and interior decoration. He did exactly that.

With an impressive ability to spot talent and to promote good, innovative and interesting design, Liberty's shop

quickly became the epicentre of London's Aesthetic movement, the place where Oscar Wilde bought Japanese silk. Successive movements found a home at Liberty's: Arts and Crafts; Art Nouveau; Art Deco; and the Georgian revival. The work of almost all the great designers of the past century in the fields of glass, metalwork, furniture, ceramics, fashion and, above all, textiles has appeared under the Liberty label.

In this book Martin Wood tells the story of Liberty's, its design and its designers: from the pewter and silverware of Archibald Knox and the Silver Studio and William DeMorgan's tiles to the fabrics of Lucienne Day, Sonia Delaunay and Bernard Nevill and the furniture of Piero Fornasetti, Vico Magistretti and even Ringo Starr.

Martin Wood is an established textile and interior designer. His books on influential figures in the history of design include Nancy Lancaster, John Fowler, Laura Ashley and Sister Parish, all published by Frances Lincoln.

news bytes

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IBI designed cancer Centre reaches milestone...
Ref: 43196

Official launch of new district general hospital for Dumfries and Galloway designed by Ryder and NBBJ...
Ref: 92969

Two distribution sales recruits join Gerflor in new roles
Ref: 54036

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102



REVIEW

Timber Expo reports record visitors numbers

Organisers of Timber Expo announced the 2014 exhibition was the most successful in the event's four year history – with over 6,000 visitors attending the show.

Event Director Loretta Sales said: "Timber Expo has grown year on year and this represents a 30 per cent increase on the 2013 visitor numbers! There was a real buzz around the event which is now a truly international affair, with visitors travelling as far afield as Qatar, China, Ghana, Russia, Kuwait, India, Malaysia, Canada and New Zealand. Exhibitors came from over 30 countries to showcase innovations from across the globe."

Loretta added: "This is not purely a numbers game however, and attracting



the right sort of visitors is crucial, so we are delighted to report an increase in

architects, engineers, specifiers and contractors – many with live projects."

PROJECT

Gatwick's visionary airport design makes global award shortlist

news bytes

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

CO Architects awarded first place in 2014 WAN Façade Award for the Health Sciences Education Building in Arizona...
Ref: 22799

Can designers and architects solve Britain's obesity problems...
Ref: 68799

Residential school for disabled children gets the go-ahead...
Ref: 61955

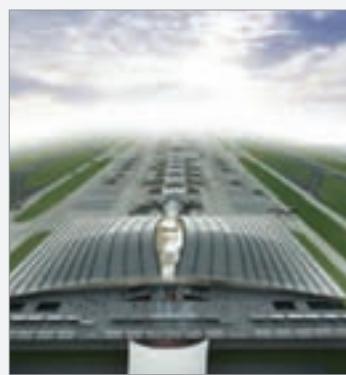
Gatwick will hear this if its visionary design for a world class two-runway airport has won a World Architecture Festival award, after it was shortlisted alongside some of the world's most ambitious infrastructure projects.

Architect Sir Terry Farrell describes his design as a 'new order' for UK airports – one to compare with the best in the world. At the launch earlier this year, he said his practice's Incheon Airport scheme in Seoul, which is widely seen as the world's best airport, provided an example for how the Gatwick vision can be realised.

The new world class facilities at Gatwick will be built if the airport gets the green light to build a second runway – a decision expected in summer next year.

The shortlisted Vision for Gatwick is based on Farrell's fundamental belief in the importance of 'integrated

connectivity' – a belief closely aligned with Gatwick's vision of London being served by a network of airports,



including two world class airports with two runways each competing vigorously – Gatwick and Heathrow.

Farrell's plan shows how expansion

of Gatwick would provide better balanced growth for London, the region and the UK. With the majority of traffic shared between London's two major airports, the economic benefits would be more evenly distributed across London and the South East and have significant regenerative benefits in particular for South London, including Croydon and down to Brighton and the South Coast.

The airport design itself will be super-efficient and have an easy to navigate layout for passengers, providing ease of movement across the site and minimal changes of level. The entire airport will also use the latest technologies to ensure processes are seamless and non-intrusive for passengers. On the airfield, passengers will also benefit from even shorter taxiing times ensuring aircraft leave on time with fewer delays.

PRIZE

3D printer that could build a home wins global design competition

Contour crafting, a computerized construction method that rapidly 3D prints large-scale structures directly from architectural CAD models, has been awarded the grand prize of \$20,000 in the 2014 Create the Future Design Contest.

Contour crafting automates the construction of whole structures and radically reduces the time and cost of construction. The large-scale 3D printing technology is revolutionary to the construction industry and could lead to affordable building of high quality, low-income housing; the rapid construction of emergency shelters; and on-demand housing in response to disasters. NASA is looking at the technology for building moon and Mars bases.

Behrokh Khoshnevis, a professor at University of Southern California, who invented Contour Crafting, views this invention as a proven concept: "Bringing 3D printing to construction is bringing a concept to a proven application. For many years, building has been done in layers – concrete foundation blocks, brick laying, structural framing, etc."

"I am very happy to receive this award and find it to be very timely as I am in the process of fund raising and I think this recognition will help me greatly in furthering the project."

Contour crafting was among the 1,074 new product ideas submitted in the 12th annual design contest, which was established in 2002 to recognise and reward engineering innovations that benefit humanity, the environment, and the economy. This year's design contest was co-sponsored by COMSOL and Mouser Electronics. Analog Devices and Intel were supporting sponsors.

Bernt Nilsson, senior VP of marketing at COMSOL, said: "This year's contest really knocked it out of the park with a record number of entries and tons of truly forward-thinking product ideas."

"All these creative designs are a testament to the power of engineering innovation for building a better tomorrow. COMSOL is grateful for the opportunity to support the Create the Future design contest that does such a phenomenal job in promoting and recognising simulation-driven product design. Kudos to all the entrants for sharing their amazing ideas and congratulations to this year's winners."

Kevin Hess, vice president of technical marketing at Mouser Electronics added: "We'd like to congratulate this year's winners for their ingenuity, and commend all of the entrants for taking part in this exciting program that fosters technological innovation. As a distributor of leading technologies, Creating the Future is very much at the heart of what we support here at Mouser, and we are excited to help design engineers and want to thank them for their important contributions. Engineers really deserve the credit for the amazing ingenuity we are seeing today in electronic design."

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AWARDS

Brick Awards
12 November, London
www.brick.org.uk/brick-awards/

European Hotel Design Awards
25 November, London
www.europeanhoteldesignawards.com

CONFERENCES & SEMINARS

RIBA Edinburgh Roadshow
30 October, Edinburgh
www.architecture.com/whatson

Resilience 14
26 November, London
www.resilience14.com

COURSES

The Drawing Gym for Architects and Spatial Designers
27 October and 3 November, London
www.buildingcentre.co.uk/events

EXHIBITIONS

Constructing Worlds: Photography and architecture in the modern age
25 September - 11 January 2015,
London
www.architecture.com/whatson

Dream, Draw, Work: Architectural Drawings by Norman Shaw RA
Until 26 October, London
www.royalacademy.org.uk/exhibition/26

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

Venice Architecture Biennale
Until 23 November, Venice
www.labbiennale.org/en/architecture

Sleep 2014

26 - 27 November, London
www.thesleepevent.com

Futures in the Making
13 - 28 November, London
www.architecturefoundation.org.uk/programme

**Ordinary Beauty:
The Photography of Edwin Smith**
Until 6 December, London
www.architecture.com/whatson

Mackintosh Architecture
Until 4 January 2015, Glasgow
www.gla.ac.uk/hunterian/visit/exhibitions/
(Click through to *Exhibition Schedule*)

Constructing Worlds: Photography And Architecture in the Modern Age
25 September - 11 January 2015,
London
www.architecture.com/whatson

100 Buildings 100 Years
Until 1 February 2015, London
www.royalacademy.org.uk/page/architecture

The Modern Lens: International Photography and the Tate collection
Until 10 May 2015, St Ives
www.tate.org.uk/stives

FESTIVALS

Bridge150 Festival
Until 9 December, Bristol
www.architecturecentre.co.uk/events-bridge150

FILMS

Architecture on Film: The World + Dallas Southfork in Hermes Land
19 November, London
www.architecturefoundation.org.uk/programme

TALKS, LECTURES & DEBATES

Chicagoism and the Export of Metropolitan Architecture
28 October, London
www.aaschool.ac.uk/public/whatson/whatson.php

Buildings: Twin Sails Bridge
30 October, Poole
www.architecture.com/whatson

Emergent Technologies and Design Open Lecture
5 November, London
www.aaschool.ac.uk/public/whatson/whatson.php

RIBA London CPD series – Growing pains: Business strategies for stressed architects
7 November, London
www.architecture.com/whatson

Great British buildings: Rambert
19 November, London
www.architecture.com/whatson

TOURS

Eco Open Houses
25 - 26 October,
Brighton & Hove
www.ecoopenhouses.org

TRADE SHOWS

RCI Show 2014
29 - 30 October, Coventry
www.rcishow.co.uk

Education Estates
11 - 12 November, Manchester
www.educationestates.com

National Painting & Decorating Show
18 - 19 November, Coventry
www.paintshow.co.uk



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SCHOLARSHIP

Calling all architects and building professionals, have you got what it takes to be a 2015 SPAB Scholar?

The search is on for up to four architects, building surveyors or engineers to become part of the SPAB (Society for the Protection of Ancient Buildings) Lethaby Scholarship 2015. This is a training opportunity like no other. After completing the nine-month programme, previous SPAB scholars have gone on to become experts in their field – some are cathedral architects, some look after palaces, National Trust houses and English Heritage sites.

The scholarship is open to architects, building surveyors and structural engineers who have completed the college-based part of their courses e.g. RIBA Parts I & II for architects, ideally with two or three years' work experience. The programme is organised and administered by the SPAB and will be of particular interest to early career professionals with a passion for historic building conservation.

Successful applicants will visit some of the country's most fascinating built heritage projects to deepen their knowledge of historic buildings and explore the challenges surrounding their

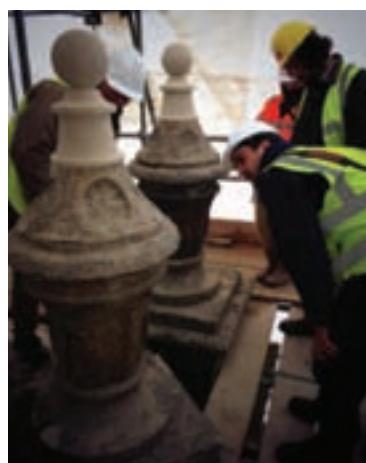


conservation. The aim is to give the scholars first-hand experience of conservative repair in action; they will be meeting professionals involved in the full range of building management issues, working on-site and in workshops and studios throughout the UK. Scholars spend the first six months travelling from site to site together, in the last three months they study, together or apart, aspects of the nation's country houses.

Former scholars include Ptolemy Dean. Last year Ptolemy was appointed surveyor of the fabric at Westminster Abbey. Along with scholar Marianne Suhr (a building surveyor), Ptolemy Dean was a co-presenter for the BBC

series Restoration.

If shortlisted, all candidates must be willing to attend an interview in London at their own expense. Commitment to the scholarship is full time, including some weekends, and it is impossible to combine it with any other form of study or employment. Candidates should be aware that there will be long periods spent away from home. The programme runs from 16 March 2015 to mid December. There are no course fees as training and administrative costs are borne by the SPAB. Successful candidates will each receive a bursary in the region of £8,500 toward their basic travel and living costs.



news bytes

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Classic meets
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presentation...

Ref: 94712

Mile End Hospital
reaps benefits of
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saving ventilation
technology...
Ref: 77605

Rockspan for 'first of
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emergency
care hospital...
Ref: 73979

Community fitness for
public health...
Ref: 80923

REFURBISHMENT

The 450,000 sq ft Aldwych Quarter Scheme completes

One of London's largest refurbishment projects, the 450,000 sq ft (GIA) Aldwych Quarter scheme, which encompasses Bush House – the Grade II listed former home of the BBC World Service – and three adjoining buildings on the Northbank has been successfully completed by JLL, ISG and John Robertson Architects.

With 300,000 sq ft of lettable high-specification Cat A office accommodation across four buildings, Aldwych Quarter provides highly flexible, modern office accommodation in a key strategic central London location.

The scheme includes the sensitive conservation, cleaning and restoration of the buildings' facades and roof structures. Rooftop terraces have been

created for tenants at the north and south ends of Bush House, providing views along Kingsway to the north and a spectacular panorama across the City, South Bank and Westminster from the south.

Working in collaboration, development manager JLL, main contractor ISG and John Robertson Architects have successfully translated the vision of Japanese owner Kato Kagaku Co. Ltd, to revitalise these landmark buildings, preserving the historical context and delivering majority BREEAM Excellent Grade A office space.

The project was completed in just 77 weeks – a significant achievement for the delivery team given the scope and scale of the Aldwych Quarter

refurbishment project. Overlapping programmes enabled the delivery team to gain early access to the buildings; undertaking vital design validation. This method was adopted as part of an all-encompassing risk management strategy, which reduced the project duration by a year.

In addition to an accelerated delivery timeframe, the Aldwych Quarter project included the challenge of undertaking significant structural alterations to remodel and reconfigure accommodation, while working within historically sensitive environments across the four individual buildings – Bush House, Strand House, King House and Melbourne House.

news bytes

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LDA Design appointed to masterplan Russian industrial site...
Ref: 38239

Donington Park wins prestigious property award...
Ref: 95480

Henderson Green completes Jersey hospital hat trick...
Ref: 35045

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RIBA ASSESSED SEMINARS FROM COMAR



In two RIBA assessed seminars, Comar outlines: *Stand & Deliver: A Study of Curtain Walling* – The design of curtain walling, its properties and how it is used by specifiers. It explains the points of H11 in the NBS specification system, and how to make use of it; *Designing Function & Reliability into Entrance* – It explains how user expectation influences door design, and links this with hardware selection, entrance configuration and floor finishes to improve client satisfaction.

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www.comar-alu.co.uk

enq. 107

EXTERIOR COLOUR DESIGN



The new RIBA CPD from NCS UK looks at factors affecting colour perception, the relevance of lightness and LRV, the concept of colour mapping, how we see colour and the properties of colour. One of the main effects is that we think the colours we see are lighter and brighter than they actually are: less black and more chromatic. A colour sample that may look slightly dull in the studio will look stronger and lighter on a facade, for example.

01491 411717
www.ncscolour.co.uk

enq. 111

RIBA CERTIFIED CPD: PLATFORM LIFTS – WHO NEEDS THEM?



Gartec's RIBA certified interactive CPD offers architects in-depth knowledge of lifting platforms and how to specify them, and provides information to enable the attendee to have expert knowledge. It covers: what is a lifting platform, regulations and responsibilities, common applications, and lifting platform uses and benefits. One of the most fun and immersive CPDs, Gartec bring a virtual reality lift experience to your offices

01296 397100
www.gartec.com

enq. 108

PROTECTING VALUE WITH QUALITY SINGLE PLY MEMBRANE



Specifiers can learn how to maximise value with single ply membrane through participation in a CPD from Protan. The RIBA certified CPD *Protecting Value with Quality Single Ply Membrane* gives supported technical detail to enable designers to optimise value throughout the design and build process, to achieve a structure that uses material that will perform on all levels.

01925 658001
www.protan.co.uk

enq. 112

ACRYLIC BASED SOLID SURFACE AND PERFORMANCE DOOR BLANKS



James Latham's CPDs on *Acrylic Based Solid Surface and Performance Door Blanks*, have both been developed in conjunction with the RIBA. The performance door blanks CPD focuses on five key learning aims and addresses the concept and significance of performance door blanks. The acrylic based solid surface CPD provides a greater understanding of this versatile material and its applications.

0116 257 3415
www.lathams.co.uk

enq. 109

THREE WILO CPDS ON OFFER



A guide to Rainwater Harvesting Systems from Wilo discusses the options available with rainwater, regulations, standards and installation example. *The benefits of high efficiency pumping* helps you develop your knowledge as to the regulations concerning glandless and glanded pumps together with new motor regulations. *Surge protection – designing out hydraulic shock* explains hydraulic shock and corrects misconceptions of how to solve it.

01283 523000
training@wilo.co.uk

enq. 113

LRWA CPD SEMINAR



The LRWA (Liquid Roofing and Waterproofing Association) has announced the launch of its RIBA approved CPD, available online for specifiers, architects, and surveyors. "Continuing Professional Development is crucial for anyone working in the construction industry," commented Terry Wain, LRWA technical secretary. The CPD should take around 25 minutes to complete and includes information on the history of liquids and the various ways in which LRWA aims to promote best practice within the industry.

0207 448 3859
www.lrwa.org.uk

enq. 110

FAST-TRACK, LARGE FORMAT WALL SYSTEMS



The CPD provides an in-depth analysis for designers on building with large format calcium silicate wall systems in fast-track construction. It assesses the relative merits of SIPS and block/steel frame construction and explains daily build rates, time savings and manner of construction, which, with Xella Big Block, is undertaken from within the building. The presentation also provides information on the composition, sustainability and environmental impact of such products.

0843 290 9080
www.xella.co.uk

enq. 114

continuing professional development

Maintaining and improving professional competence, skills, abilities and knowledge

BM TRADA CPD SEMINARS



BM TRADA has released the dates for its series of regional timber frame seminars aimed at architects and engineers as part of its CPD contract for the UK's wood promotion campaign, Wood for Good. Delivered by BM TRADA's frameCHECK team, the events will focus on the benefits of constructing using timber frame (speed and ease of construction, environmental); the history for timber frame; and sources of timber products used for construction. In addition, delegates will learn about techniques of construction. Dates are as follows: 4 November, Birmingham; 25 November, London; 25 February, Bristol; 24 March, Manchester.

01494 569647
www.bmtrada.com/technical

enq. 115

RADIANT HEATING AND COOLING



Zehnder, manufacturer of indoor climate solutions, has recently updated its RIBA and CIBSE approved *Radiant Heating and Cooling* CPD as part of its ongoing commitment to train, support and inform the architectural, engineering and construction industry. The seminar explains the principles of radiant heating and cooling, and how they affect comfort levels for building occupants. It also looks at the various types of panels available.

01276 605800
www.zehnder.co.uk

enq. 116

EFFECTIVE DESIGN OF SINGLE PLY ROOF SYSTEMS



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.

The CPD covers the following topics: Design Considerations – choosing a single ply system and designing to the best practice; Quality Suppliers – getting support and services from single ply manufacturers; Guarantees – possible flexibility and options; Industry and Legislation – information on meeting the correct and relevant standards; Sectors and Build types – the considerations and different methods available; History and Group information – a helpful insight into both Sika-Trocal and the Sika Group.

Sika-Trocal has provided single-ply roofing solutions to specifiers, clients and main-contractors in the UK for over 40 years. Sika-Trocal specialise in single ply roofing solutions that are designed to be installed as quickly and efficiently as possible, ensuring a cost-effective solution every time.

If you are looking for assistance when designing and selecting single ply roofing solutions and require further information on this seminar, please contact Sika-Trocal directly either via phone or email, or visit the company's website.

01707 394444
www.sikatrocal.co.uk

enq. 117

cpd bytes

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

'Changing Places' – what it means...

Ref: 16466

Portakabin hire launches new CPD programme to guide specifiers and facilities managers through the procurement of interim buildings...

Ref: 69438

BIID releases latest calendar of CPD events...

Ref: 50668

GEZE UK's latest RIBA CPD is a breath of fresh air...

Ref: 30136

BM TRADA to stream live fire door test...

Ref: 65998

Urban Front joins RIBA CPD network with seminar entitled Specifying Hardwood Timber External Doorsets...

Ref: 31668

Free CPD seminar to teach the advantages of residential and commercial fire engineering...

Ref: 38321

IKO launch RIBA approved Mastic Asphalt CPD...

Ref: 52151

Closing the lighting skills gap...

Ref: 53486

BIM Champions – your company needs you...

Ref: 33190



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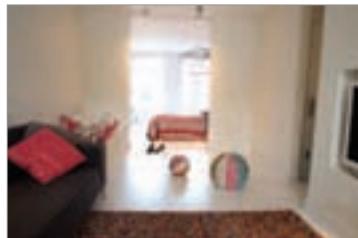


editor's focus

Brewer

Brewer take pride in its work and believe in offering a superior quality of product across its entire range. Brewer manufactures its cowls in its own factory and source materials from trusted suppliers, helping to guarantee that customers will be satisfied. The company offers a variety of products ranging from the ever popular birdguard model to anti-downdraught cowls and bespoke units.

[enq. 118](#)



Focus SB

Focus SB have launched a new and exciting electrical accessory wall mounting system that gives a truly flush-mounted electrical plate, developed in collaboration with architects and designers SHH. The precision engineered system of the Focus SB Smoothie allows the plate to fit flush with the plaster making it seamless with the wall. The plate, which is supplied primed, can be painted or wallpapered to match the surrounding wall. Only an outline of the plate and plug pin holes are visible once the plate is installed and removing or inserting the plug does not disturb the surrounding plaster.

[enq. 120](#)

J.Banks

Following the first design for a concealed window restricting device more than 20 years ago, the company has been actively involved in a continuous programme of design and development, which has now evolved into the most comprehensive range of window restrictors available from any European manufacturer. Working closely with the major distributors and window companies, J.Banks has developed a wide suite of products designed to meet a variety of applications and window profiles. In recent years the company's R&D department has recognised the growing need for products that satisfy the new building regulation requirements and the possibility of even more demanding legislation likely in the near future.

[enq. 119](#)

SIMONSWERK

The last phase of the £25 million project to restore the Grade 1 listed Guildhall Complex in Swansea, is the £6 million refurbishment of Brangwyn Hall, a popular centre of social and cultural life in Swansea and located within the Guildhall. High performance architectural door hinges from SIMONSWERK were specified by architects Powell Dobson and contractors John Weaver Construction for the Brangwyn development. TECTUS fully concealed hinges have been used on a set of stage doors allowing a lift to bring items up from storage beneath the building.

[enq. 121](#)

Standing Stone

The new HP Designjet T3500 Production MFP is slashing the cost of printing for all its users. With its i5 processor, 500GB hard disk and 21 A1 per second print speed from 2 x 200m rolls, it's also reducing print and processing times. Standing Stone DOS Ltd., an HP Designjet Production specialist, offer a full service and great discounts on the T3500.

[enq. 122](#)

Addagrip

Addagrip, the leading resin bound and bonded surfacing manufacturer, has teamed up with Netherlands based Flowresin Group to launch a stunning new range of interior flooring called PU Floor Green Line. The seamless floor collection combines traditional craftsmanship and modern technology to create a unique, durable flooring product that can be tailored to suit individual requirements. Available in a broad spectrum of individual and combined colours, PU Floor Green Line provides the highest quality finish – ideal for any room in the home, office or shop.

[enq. 123](#)

Sustainable Drainage Centre

The Sustainable Drainage Centre offers a comprehensive consultancy and design service for a wide variety of Sustainable Drainage Systems (SuDS) for both residential and commercial clients. The website is managed by experienced civil engineers who offer a full drainage design service. The company also sizes soakaways for small extensions and self build projects. Whether you're looking for consultancy advice for a small project or planning a large development, the Sustainable Drainage Centre can assist you every step of the way.

[enq. 124](#)



Landy Vent UK

Landy Vent UK Ltd has completed formal EU testing for two of its Ecco Stove models, the EC678 and EC730, which achieved groundbreaking efficiency; carbon to atmosphere and particulates to atmosphere achieved up to 88 per cent efficiency and CO of 0.07. The heat storage benefits have not been affected, making it the first in UK design and manufacture for slow heat release appliances. Landy Vent now has four stoves in its range to suit all houses and tastes, they exhibit at different shows throughout the year, why not call them to find out when they'll be near you?

[enq. 125](#)

Rubb Buildings

Tension structures, such as those from Rubb Buildings, are becoming more commonly used in modern architecture due to the pleasing aesthetic properties they hold. It is believed they are efficient structures due to their weight/strength ratio. In architecture fabric structures tend to be associated with large scale projects such as London's Millennium Dome. However, there is another side to fabric structures. Structures that bridge the gap between the iconic structures and the typical cycle shelter or entrance canopy. There have been numerous successful projects where fabric structures have been adopted as an alternative to more traditional materials for buildings such as warehouses, hangars or sports halls.

[enq. 126](#)

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[enq. 127](#)

COMPETITION

What is your Art of Building? CIOB opens 2014 digital photography competition

'Run by the Chartered Institute of Building entrants can take part from 13 October until 23 November , the winning photographer will scoop a cash prize of £3,000

Fancy yourself as a bit of a photographer? Passionate about the built environment? Then the Art of Building competition is the perfect platform for you to show off your talent.

It doesn't matter if you're rocking the latest Leica or are a dab hand at smartphone photography; the competition is free to enter and open to anyone over the age of 18 from any part of the world. Run by the Chartered Institute of Building entrants can take part from 13 October until 23 November , the winning photographer will scoop a cash prize of £3,000.

Each year thousands of professional and amateur photographers take part inspired by the built environment and capturing it in thought-provoking and imaginative ways.

Saul Townsend from the Art of Building said: "The breadth of photography we see is amazing. From those who are revealing a little known building to those showcasing a familiar icon in a new light."

"Last year Kirsten Quist and her photojournalistic style switched voters onto the serious issue of forced child labour in India. It was a fantastic example of the power of photography and its ability to tell a story in any language."

This year, the judging panel includes broadcaster, photography critic and editor, Sue Steward; award-winning photogra-

pher Matt Wain, and Elaine Knutt editor of Construction Manager magazine.

- The competition is free to enter and open until 23 November 2014
- A panel of industry judges shortlist the entries to 15 finalists. The overall winner is then decided by public vote
- The winning photographer scoops a cash prize of £3,000 and is crowned Art of Building Photographer of the Year
- Up to three photographs per person may be entered into the competition across the categories
- Entries may be digitally enhanced or altered but must be submitted via the website in a JPEG format between 2mb and 8mb per photo. Entries will not be accepted outside of the advertised closing date or if they are embedded with borders or locks
- The competition is now in its fifth year

For more details about the competition and to enter, log on to www.artofbuilding.org. The competition can also be found on Twitter and Facebook.

CEREMONY

news bytes

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

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Ref: 56778

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Ref: 45434

The Great Reveal

The interior fit-out specialists DG Professional Interiors were commissioned to build an 'act of architectural theatre' for the 2014 edition of the Restaurant & Bar Design Awards ceremony.

A celebration of British design and the eclectic mix of food and drink we have within these shores, a 'reveal' was created where various restaurant & bar spaces were 'exposed' as the evening of the awards progressed. Entirely white, the set was highly dynamic and interactive.

Inspired by the music from three British eras the 1890s, 1970s and the 2000s, three top hospitality designers ,Harrison, Michaelis Boyd Associates and d·raw, created three very different food and beverage spaces.

The build was managed by BCS, with lighting by Firefly Lighting Design and Halo and signage by Harper Signs.





A brave new world for London Bridge station

One of the capital's great historic railway stations is on course to become the well designed, attractive transport hub it should always have been. Ray Philpott explores the role of architecture in its renaissance

London Bridge, the city's first passenger railway terminus and among the oldest in the world, is being transformed into a 21st century travel portal.

Its 15 platforms are being covered by gleaming, sinuous, Grimshaw-designed canopies set above a huge street-level concourse packed with cafes, restaurants and shops.

The redevelopment is part of Network Rail's massive £3.6 billion Thameslink Programme to expand and improve the existing through-London Thameslink rail service that connects destinations to the north and south of the city.

Some £1.5 billion is being spent on the essential rebuilding of London Bridge Station and remodelling its associated track

Pictured: London Bridge station is set to make a big impression

Continued overleaf...

'In terms of design, service, image and presence, it will be out of this world compared to what was there before'

Andrew Hutton, lead project manager, Network Rail



The St Thomas Street entrance

layouts to remove operational obstacles to the service.

From 2018 onwards, up to 18 Thameslink trains in each direction will call at the station every hour, serving a greater number of destinations than now. London Bridge will have nine through-service platforms and six platforms where trains terminate, ultimately handling up to 90 million passengers a year.

A historic opportunity

Built in 1836, London Bridge quickly became a confusing station with a split personality, thanks to the over-zealous rivalry of Victorian railway companies. Effectively, it's been two stations on one location – one a terminus and the other handling through trains – with ever-changing railway buildings and layouts.

Traditionally, it's been awkward to navigate, but the Thameslink Programme has given Network Rail an historic opportunity to create a fit-for-purpose building. Network Rail appointed a design team comprising architects Grimshaw and the WSPHyder joint venture company, working with main contractor Costain and its sub-contractors.

The new station forms part of the London Bridge Quarter regeneration programme that already includes iconic buildings like the adjacent Shard, The Place and a bus station.

At the centre of Grimshaw's railway design is a new street-level concourse, roughly the size of Wembley Stadium's football pitch and the biggest in the country. With entrances in Tooley Street and St Thomas Street, the concourse also serves as a north-south public thoroughfare that's very much



integrated into the local street environment, featuring a new public piazza in Tooley Street.

Stairs, lifts and escalators give passengers access to all 15 platforms on the level immediately above, covered by Grimshaw's striking, twisting canopies. Often described as eyebrow-shaped, the shining, metal-clad flows of the canopies contain integrated, north-facing glazing that floods natural light onto both the platforms and concourse.

The concourse also offers direct access to the Western Arcade, a series of historic vaulted arches that have been extended to create a passenger link, lined with retail units, to London Bridge Underground station.

Finally, at platform level at the Shard end of the station, is the glass and metal Renzo Piano-designed 'terminus

concourse' building, built as an integral part of the Shard development and already in use. Its primary role is to give passengers access to the lines that will terminate at the station and Underground services, and will also provide a link to the larger concourse.

With 55 million passengers using the hub every year, it's simply not viable to close London Bridge for rebuilding, but keeping it operational means access and construction sites are highly constrained.

That's why the work is being carried out in phases. Platforms and their canopies are being rebuilt two or three at a time and many of the steel and concrete structural elements are manufactured off-site and assembled section by section on-site.

Continued overleaf...



© Grimshaw

The platforms are covered by sinuous, metal-clad canopies, shown in finished form on the left of the image

Let there be light

A core driver behind the Grimshaw design is enhancing the experience of rail passengers and those enjoying the new station's considerable retail and catering offering.

Andrew Byrne a Principle Architect at Grimshaw and lead architect for the project says: "The station has never had a comprehensive design vision and has always suffered from piece-by-piece development. This was a disaster for users in terms of orientation and intuitive way-finding – the identity of the station was a mess."

"One of the key elements of the design is bringing down and bouncing around as much daylight as possible onto the platforms and the concourse to make the station environment pleasant. We're using northern light, rather direct than sunlight from the south, which could cause technical problems on the concourse. This, combined with the concourse and platforms being classed as exterior spaces, means solar gain is not an issue. Consequently, a highly-secure but relatively untinted low-E glass has been used."

Byrne adds: "The sinuous nature of the various platforms are expressed in the roof. We have the silver twisting, curving, ribbon-like canopies, clearly distinguished as visual strips along the length of the station."

"We used anodised aluminium panels to reflect light, with the distinctive 'eyebrows' of the canopies twisting at 45 degrees so that we get as much reflected off that surface as possible. The canopies are largely devoid of services or fixtures enabling it to redirect light more efficiently."

The fact that these are clearly defined, horizontal elements with breaks between them has enabled the project to be built in phases as required.

"Aesthetically, if we'd tried to create a single over-arching canopy we wouldn't have been able to create the effect of delicate, elegant ribbons marching across in sequence," Byrne continued. "We also wanted to avoid large areas of flat, horizontal glazing which would be difficult to maintain and access. However, people will get a lot of opportunity to enjoy the sky and outside environment though the curved glazing."

"Furthermore," says Byrne, "the 'eyebrows' also help with way-finding and circulation by acting as a special architectural feature giving passengers a clear idea of where they need to be going."

"For many reasons the curving shapes are very practical, but we also believe they give the station a sense of unity and an iconic identity."

Bearing unity in mind, a key challenge was blending the Grimshaw building with the terminal concourse. "The terminus concourse has a strong design relationship to the Shard, while we've developed a language of curves," explains Byrne. "Our canopy design undulates where it needs to draw light down to the street level concourse then flicks up to create a complimentary transition to terminus concourse."



Rich environment

The street-level concourse has been carved out of a complex maze of 19th century arches and vaults that support the tracks.

Grimshaw's vision was to create a rich environment, a 'public room' for London – partly internal, partly external – that offers great amenities. The architects wanted the space to be easy to navigate and understand plus visually and physically appealing, inviting people to spend time there.

That means fundamental, large-scale structural features, like the bridge sections that support the track and platforms above, have to be treated with great care. Their size dictates that a substantial amount of artificial light – mainly LED – is still required. A carefully lit timber lining has been applied to these

areas to elevate the space from the purely functional to something more aesthetically appealing.

Byrne says: "The cladding is made from a natural product and, by making this area feel more tactile, it strongly contributes to its success. Without it, the concourse could have felt rather inhospitable and more like being under a road overpass."

Grand entrances

The concourse's St Thomas Street entrance retains the Grade 1-listed Victorian polychromatic arches, made from coloured bricks. They've been blended with additional, new brickwork pillars and arches that are sympathetic but avoid pastiche.

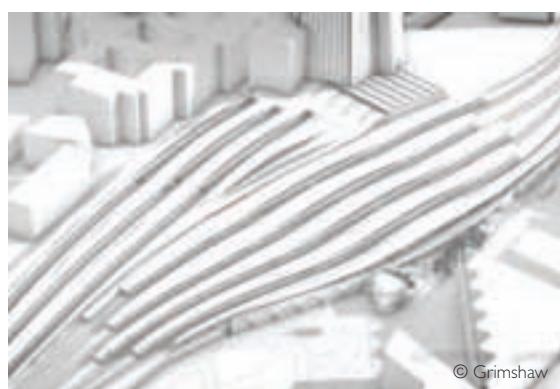
In contrast the more contemporary-looking Tooley Street entrance retains very little of the old structures, and has been opened out into the street to form an attractive meeting place. Some of the original station structure will be used to house retail units on either side of the entrance.

However, it was necessary to demolish the attractive Victorian offices of the old South Eastern Railway in Tooley Street, which naturally upset some people. "Keeping the building was too limiting and we couldn't move the concourse. Operationally it made the entrance difficult to understand and use and would have deprived the station of an essential emergency evacuation area."

Another heritage-related challenge was the historic, Grade II-listed 1865 'train shed' that housed the original platforms under a glass and metal barrel-arch roof. Everyone agreed the required track layout made it impossible to keep the building

'For many reasons the curving shapes are very practical, but we also believe they give the station a sense of unity and an iconic identity'

Andrew Byrne, principle architect, Grimshaw



Tooley Street entrance (above); an aerial view of the station showing how the Grimshaw canopies flow into the recently built 'terminus concourse' at the base of the Shard (left)

Continued overleaf...



Client: Network Rail

Architect: Grimshaw

Project manager:

HyderWSP

Structural engineer:
HyderWSP

Main contractor:
Costain

Steel contractors:
Cleveland Bridge,
Severfield-Watson
Structures

Canopy cladding:
TATA

in situ. The brick walls supporting the steel and glass roof were demolished, but some of the metal columns and roof elements have been dismantled and will integrated into a railway museum building in Aberystwyth.

Byrne adds: "It's always a shame to lose nice Victorian architecture, but you have to consider the benefits to the overall scheme."

Network Rail is pleased with the redesign and eagerly anticipating the launch of its bright new station in 2018.

Andrew Hutton, the company's lead development manager

on the project says: "When the work is finished, for the first time ever it will feel like you are in one station rather than various bits of a building."

"In terms of design, service, image and presence, it will be out of this world compared to what was there before. It will possess a strong sense of destination – somewhere where you can visit or shop, whether you are part of the community or travelling."

"At long last, London Bridge is joining the Premier Division of London stations."



Inside the new, spacious street-level concourse (above); passengers travelling to and from the station will benefit from natural light (right); and the Grade I-listed arches at St Thomas Street have been integrated into the new design (far right)

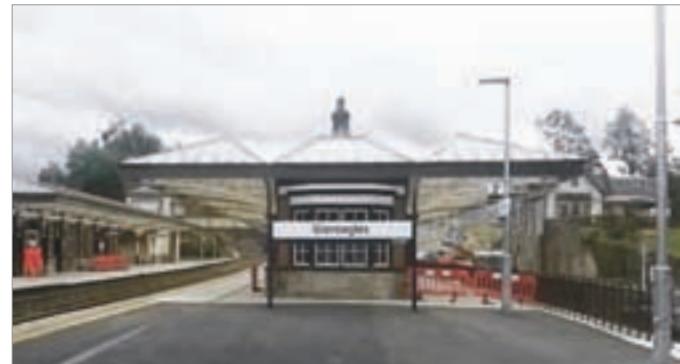


Levolux minds the gaps at Blackfriars



London's Blackfriars Station has been transformed as part of Network Rail's Thameslink Programme. As part of this, the station now boasts a new northern entrance, which is equipped with an external solar shading solution from Levolux. The station, which first opened in 1886, has been expanded to increase capacity and as a result becomes the first mainline station to span the River Thames. In addition to a new station on the south bank, a new combined entrance was also created on the north bank, allowing easy access to National Rail and London Underground services. The newly renovated Blackfriars station has been acclaimed as a considerable achievement, with more than 44,000 passengers a day that now pass through the station.

enq.128



A series of VMZINC curves in Chatham



The new Chatham Waterfront bus station forms part of the £6 billion Medway Regeneration plan. Its highly distinctive VMZINC standing seam canopies and flat lock fascias in pre-weathered QUARTZ-ZINC® were specified by infrastructure specialist D5 Architects. Zinc's malleability made it the logical choice of metal for a design incorporating a series of tight, sweeping curves. The site has 20 stands and an information centre, and is close to the proposed Chatham Docks World Heritage Site, between the town centre and open parkland adjacent to the River Medway.

01992 822288 www.vmzinc.co.uk

enq.129

Vortice HRUs at Gleneagles railway station

Vortice heat recovery units have been used for the refurbishment of the Gleneagles railway station in time for the 2014 Ryder Cup which took place from 23-28 September. Vortice NRG heat recovery units were specified by Glasgow-based consultants SVM and were installed by contractor Kentallen. This is the first major refurbishment of Gleneagles station since 1919. While retaining its historical features, the station will be brought up to date, part of which is specifying the latest in energy efficient ventilation systems by Vortice. Gary Kerr from SVM said: "We were impressed with the breadth of heat recovery technology offered by Vortice and chose the NRG commercial heat recovery units as they were ideal for the project at Gleneagles." This is not the first premium golf-related contract for Vortice, in 2012 the company supplied Rory McIlroy's home club, the Holywood Golf Club in North Belfast, with heat recovery units for its changing rooms.

01283 492949 www.vortice.ltd.uk

enq.130

Changing Places to make public transport hubs accessible



Would you like to have to lie on the floor if you needed the toilet? For some this is often the reality, because venues are not properly accessible or inclusive. A recent survey maintains 75 per cent of disabled people experience barriers to using transport. Buses and trains each account for almost 20 per cent of the mode of transport they would like to use more. A survey into The National Station Improvement programme Putting Passengers First found that toilets were the top facility most in need of upgrading at stations, but also that they were the most important priority for improvement. Yet few of the UK's bus and railway stations have a 'bigger and better' accessible (disabled) facility – Clos-o-Mat's Changing Places toilet. Under both the new Building Regulations Approved Document M, and BD8300:2009, a Changing Places toilet is 'desirable' for inclusion in any building to which the public have access. Further, the Accessible Train Station Design for Disabled People Code of Practice states a Changing Places toilet should be included in addition to other accessible WC provision. A minimum 12 sq m, a Changing Places toilet also has, beyond the equipment found in a standard wheelchair-accessible WC, a hoist, adult-sized height adjustable changing bench, and privacy screen.

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

enq.131

COBA Flooring – a safer choice



As well as supplier of entrance matting systems, COBA Flooring is fast becoming a prominent name in the supply of GRP sheets, stair treads and stair nosing within the COBAGRIP collection. COBAGRIP is a range of anti-slip flooring products meeting DDA requirements for use on walkways and stairs. This type of product is regularly used for enhancing safety underfoot within public transport buildings. UV stabilised, making them suitable for indoor and outdoor use, heavy-duty COBAGRIP products have a silicon carbide 'gritted' top surface which provides excellent slip resistance. COBAGRIP products are manufactured from flame-retardant materials.

Within the range are two types of GRP sheet, standard and light. Standard has an overall product height of 5mm whereas light is 2.4mm high. Sheets are available in black, grey and yellow. There are also COBAGRIP GRP Stair Treads (covering the complete stair) with contrast coloured nosing available in four lengths, and COBAGRIP GRP Stair Nosing in yellow, in four lengths. COBA Flooring manufactures and supplies an extensive collection of flooring products, including aluminium, PVC and carpet entrance systems, as well as vinyl floor tiles.

0116 240 1161 www.cobaflooring.com

enq.132

Theatre de Stoep, Spijkenisse opens its doors this month

Ben van Berkel / UNStudio's follows the recent completion of the Theatre de Stoep in the Dutch town of Spijkenisse, and how the Municipality of Spijkenisse will celebrate the official opening of its new cultural venue for the city



© Peter de Jong

'The vertical foyer becomes a pivotal point in the social functioning of the theatre, a 'stage' for the visitors and a dynamic focal point.'

Ben van Berkel

UNStudio's design for Theatre responds to the current cultural invigoration of the city by merging the archetypal function of a theatre – that of creating a world of illusion and enchantment – with the specific requirements of a regional theatre and its requisite to cater to the varied needs of the local community. The theatre is therefore designed with a dual emphasis on the chimeric nature of the world of the stage and the social aspects of the theatre experience.

Ben van Berkel said: "In contrast to today's mediatised culture, theatre offers the participatory experience of the live event, often appropriately referred to as 'liveliness': the 'magic of live theatre', understood as the strange, elusive energy between audience and performer, the community forged together and the momentary collaboration necessitated by the live event."

Theatre de Stoep is designed to fortify and inspire this liveliness, providing at one and the same time a place of performance, of social gathering and of experiencing contrasting

realities: the world of the other, of fabrication, of expression and display, but simultaneously the very real sentient experience of ourselves as spectators within these worlds.

In the design of the 5,800 sq m building a larger and a smaller theatrical space (with the main auditorium seating up to 650 guests and the smaller hall accommodating 200), several inter-linked foyers, a grand cafe and a restaurant, an artist's cafe, a VIP lounge, numerous dressing rooms, multifunctional rooms and offices are all brought together within one volume. The placement of the various internal volumes results in a building in the form of a flower, with a large, column-free central foyer forming the heart of the structure.

Vertical foyer

Ben van Berkel said: "The vertical foyer becomes a pivotal point in the social functioning of the theatre, a 'stage' for the visitors and a dynamic focal point surrounded by viewpoints on different levels."

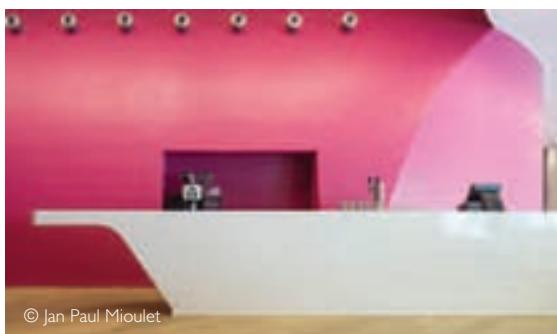
Furthermore, the foyer serves to organise wayfinding and the linking of the different programmes within the building. From the main foyer, a sculptural stairway forms the binding element towards the entrances to the auditoria, while the handrail of the stairway seamlessly molds itself into functional surfaces and furniture elements.



© Peter Guenzel

Auditoria and acoustics

Theatre de Stoep hosts a wide variety of performance types, including plays, opera, cabaret, musicals, concerts, youth theatre and dance performances. As such, versatility in the acoustic properties of the theatre spaces is paramount. The recent rapid development of the software used to control acoustics made it possible to engineer and optimise the sound quality within the auditoria. Thus the ceiling elements can be lowered and angled to adjust volume levels when required, while the acoustic wall panels reflect and increase the quality of the sound for every seat in the auditorium.



© Jan Paul Mioulet

Light and colour

Light and colour play an essential role in the experience of the theatre, not only in the auditoria and for productions, but also for setting the scene, the atmosphere and the mood in the public foyers. During the day the lower glass portion of the facade enables daylight penetration directly from both the front of the theatre and from above, throwing daylight deep into the foyer and above the stairs leading to the auditoria. In the evening a warm and inviting atmosphere is created through the use of both colour and artificial lighting.

Above the glazed lower levels of the facade, the upper portion comprises two layers of aluminium. Glimpses of the purple coloured back layer can be seen through circular perforations in the outer white panels, with LED lights fitted between the two facade layers to light the building in the evenings.

Integration and attainability

Unique to the location is its connection with the water and the view to the nearby windmill, Nooitgedacht. The building volume is rounded so as to ensure as little wind flow disturbance to this nearby mill.

Although the demands of the regional theatre are many and varied, ways must be found to balance design ambitions with affordability. One means by which it was possible to save significant costs on construction was through the use of Design Information Modelling (DIM): a knowledge integrated performance driven design methodology employed during the design phases which affords the unique opportunity to test and to model spaces swiftly and in an integrated fashion.



© IOB

In the early stages of the project UNStudio worked with Arup on Clash detections to ensure that all three dimensional details were recognised and researched on repetition and buildability. The step from Design Information Modelling to Building Information Modelling (BIM) was made after tendering the main contractor VORM Bouw. The final BIM model was developed from the DIM model by IOB in close collaboration with the contractor to ensure an important reduction of the adjustment costs and micro control of the detailed costs. The client, the City of Spijkenisse, played a crucial and important role in requesting the full DIM/BIM design process and the full BIM model will be used for the maintenance and management of the theatre in the future.



© Jan Paul Mioulet

Local executive architect: UNStudio
Consultants:
 Engineer design phase (structures and building services): Arup
 Engineer execution (structure and architecture): IOB
 Advisor installations execution phase:
 De Blaay – Van den Boogaard
 Lighting design: Arup
 Theatre technique: PB theateradviseurs
 Acoustics: SCENA akoestisch adviseurs
 Fire: DGMR
 Costs: Basalt Bouwadvies
Contractors
 Main contractor: VORM Bouw
 Aluminium facade: Sorba projects
 Windows: Blitta
 Steel structure: Staalbouw Cluistra
 HVAC: De Jong installatietechniek
 Electricity: Steegman Elektrotechniek
 Interiors: Form Finish
 Theater technique: DTS2
 Seating: Jezet Seating
 Exterior materials envelope: aluminium (Alpolic), glass, ceramic tiles
 Lighting: Led strips by Traxon Technologies
Interior Materials/ suppliers
 Flooring: parquet (foyers)
 Ceilings: stucco on plasterboard (Sto Silent) (in foyers)
 Wall finishes: paints plasterboard (outside auditoriums), stucco (foyers), MDF (auditoriums)
 Lighting: Zumtobel (foyers)
Furnishings:
 Soft furnishings: Linoleum (Forbo), carpet
 Kitchen appliances: Metros
 Bathroom appliances: Sphinx (in public spaces)
 Fixtures and fittings: Polyurea finishing on MDF (most bars and counters)

Liverpool Heart and Chest Hospital improve access with Axis



The ongoing refurbishment programme at the Liverpool Heart and Chest Hospital identified a set of emergency exit doors on the Holly Suite Cardiac Day Care Unit being regularly used as a delivery point for supplies and exit for waste materials. The doors were not automated, which made it difficult to move trolleys through the doorway and left them prone to damage.

Discussions with Axis Automatic Entrance Systems of Northampton led to the replacement of the old doors with a set of half glazed aluminium doors automated with Axis ax85 Universal swing door operators. These allow push button operation to open the doors from the inside of the building with a delayed action setting allowing ample time for users to pass through the doorway before they automatically close to maintain security and fire protection. From the outside door operation is initiated by a magnetic card reader which restricts access to authorised users.

The name ax85 comes from the 85mm height dimension of the unit making it one of the neatest systems on the market. The ax85 is approved as a hold-open system for fire protection barriers and can be used with various fire-protection profile systems.

0844 504 6525 www.axisautomatic.com

enq.133

Flowfresh the favourite floor for Australian flagship hospital



The \$2 billion Fiona Stanley Hospital had an ultra hygienic Flowcrete floor installed that meets its ethos of utilising state-of-the-art technology to provide a world-class medical facility. The 783-bed tertiary hospital is the largest construction project ever undertaken by the state government. Throughout the project, pioneering construction ideas have been embraced alongside advanced scientific, technological and medical innovations to ensure that patients and the medical community have access to a wide range of clinical, research and education services. As part of this commitment to meeting world-leading standards, 1,120 sq m of the innovative antimicrobial floor Flowfresh SR was installed in the patient catering facility. This solution was chosen to ensure a sanitary environment that would minimise the risk from harmful contaminants. Flowfresh includes the antimicrobial agent Polygiene®, which actively assists on-site cleaning regimes by inhibiting the growth of up to 99.9 per cent of bacteria on its surface. The managing director of Flowcrete Australia, Sean Tinsley, said: "Flowfresh is the ideal solution for locations such as this thanks to its ability to retain a smooth, hard wearing finish, which is not only easy to clean but which works to eliminate unwanted and potentially harmful pathogens before the cleaning routine even starts."

01270 753000 www.flowcrete.co.uk

enq.134

Need the right approval?

Salus is a leading Approved Inspector to corporate clients covering all areas of building control, fire engineering & fire safety consultancy operating from nine regional offices with highly experienced surveyors & fire engineers.

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Total approach to helping disabled children

Kent County Council has opened three Multi-Agency Specialist Hubs (MASH), offering NHS, social, voluntary and educational services all under one roof. The suites are the first in the country to deliver such a comprehensive range of resources in one place, with the commitment to the users' needs extending through to toilet facilities. As a result, each MASH has had two hygiene rooms installed. These rooms include Total Hygiene's Clos-o-Mat Palma 'wash and dry' toilet with optional touch sensitive operating switch. The rooms are based on the Changing Places accessible toilet concept, which are different to standard disabled toilets with extra features and more space for people with profound and multiple learning disabilities and other people with severe disabilities who need the support of at least one carer. The Clos-o-Mat features integral douching and drying, removing the need for the user or carer to wipe clean with toilet tissue.

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

enq.136

Clear Architects' Haven House Hospice annexe

An expanding children's hospice proved to be a challenging – but ultimately rewarding – architectural project, writes Melanie Clear



Haven House Children's Hospice is a charity that offers a home-from-home space for children and young people with life-limiting and life-threatening conditions and their families. The charity has expanded rapidly; in 2012/13 it supported 149 children in the hospice (including 28 new children through referral) plus a further 93 through its community services.

The design

Clear Architects was brought in to design an annexe to the charity's locally listed White House building when it became clear that NHS England were providing capital funding. Its design houses two consultation rooms for Great Ormond Street doctors, one music therapy room (later supplied by the Amy Winehouse Foundation) and a flexible/activity space for training or larger activities for the children.

Clear's concept for the annexe was for it to be strikingly different to the original White House building's Arts and Crafts style. The proposal was a contemporary interpretation of a garden-styled building, which would connect to the original

Continued overleaf...



building by a glazed link. The timber-shingled facade nestled the building into the surrounding tree landscape as well as providing a clear differentiation to the architectural style of Charles Voysey, whose design White House was built to. For the annexe, a Seddum roof was incorporated into all of the flat-roofed elements for two reasons; to provide an 'organic' outlook, with reference to the natural building Clear tried to instigate with the timber frame, and to create harmony with the woodland setting.

Architects and planning consultant:
Clear Architects

CDM:
Sheeley Associates

Build:
Mason Construction
(London) Ltd

Building control:
Salus Building Control

Survey information:
Greenhatch

Structural engineer:
JP Chick & Partners

Air conditioning system:
CoolSpace

Windows, front door and roof lights:
Fineline Aluminium

Green roof and insect hotel:
ANS

Timber shingles:
Silva Timber

Flooring:
Lancashire Flooring

Sanitaryware:
Bathworks

Platform lift:
Access4All

Bespoke joinery items:
DM Sullivan
Furnishing Ltd

Specialist consultation sinks:
Venesta

Funding:
NHS England

IT support, plus furniture and equipment:
ING

Funding of the Amy Winehouse Foundation Music Room:
The Amy Winehouse Foundation

Funding of a consulting room and disabled WC:
The Story of Christmas

Furniture and equipment:
Premier Sustain

A home cinema installation:
Together for Cinema



The funding

The project was fraught with challenges from the outset, not least because the concept and design had to be created before it was clear how much funding from the Department of Health (later NHS England) would be awarded for the proposed build. Clear Architects created a 'bid' document that incorporated the concept, internal space layout/brief and rationale to the bid request, which was for £699,000, incorporating a quantity surveyor's breakdown.

Of the £699,000 applied for, Haven House was awarded £464,000 for the annexe build. The funding shortfall meant several 'value engineering' exercises took place; Clear literally begged the contractors/suppliers it knew for their assistance to enable the majority of the works to still be undertaken despite the constrained funds.

The main areas that were altered as a result were the reduction in floor area, the removal of the original proposed lift and a decrease in the glazed link by restricting it to the front of the building only. Despite the reduced scope of works, the concept and design were not dramatically affected. Indeed, Clear was able to provide all the additional care resources for the hospice but could not quite stretch to the ground floor community office. So, despite the shortfall, it is felt the project has still been very much delivered.

There were other challenges too. The site designated for the extension is located on land spanning three different councils: Redbridge, Waltham Forest and the City of London. This meant Clear had to negotiate with all three for access, albeit that Waltham Forest were the main council for the building designs. Even with that, Clear worked hard with the conservation team for the correct design. Clear also had to work within the confines of a boundary of trees and an arboretum (a collection of protected trees) on-site, which has been planted by famous people such as Lady Margaret Thatcher and Sir Winston Churchill. The annexe building had to be designed so

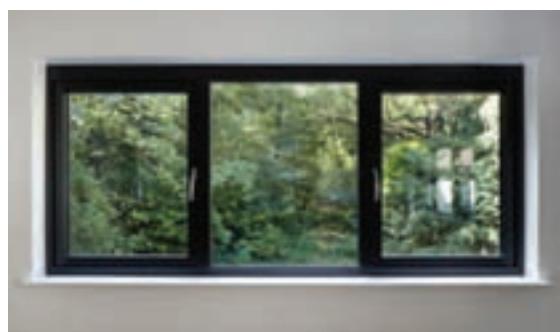
as to avoid the root protection zone, and the crown of one of the annexe's neighbouring oak trees even dictated the shape of the building; a whole corner was set back to the front of the building to accommodate this and collaborated extensively with a tree officer from Waltham Forest council.

The construction

In line with its practice's end-to-end, inside-outside approach, Clear took this project from concept and drawing board all the way through to project managing the build and, using trusted contractors Masons Construction (London) Ltd, Clear designed the interiors as well, specifying all flooring and lighting. The charity later had an interior design company help them with keywords that signify the charity's ethos that are displayed on the brilliant white walls to powerful effect.

In the end, with some clever redesigns, Clear managed to retain the concept and build almost 100 per cent of the design; a feat only achieved due to the generosity of everyone involved in the build. In total, an estimated £160,000 was donated based on 'at cost' price estimations for a fantastic cause.

The ethos of the charity is that Haven House is a place where children from across North and East London, West Essex and East Hertfordshire are cared for to live as fully as they are able to. The annexe will change the way the hospice operates and the care it is able to provide, which makes all of Clear's hard work even more rewarding.



Haven House Children's Hospice

As part of the redevelopment of the Haven House Children's Hospice, Clear architects contracted Axess 4 All directly to help advise on the most suitable product to give access to the raised floor for wheelchair users. As part of Axess 4 All's consultative approach, the company visited Clear Architects and sat down with the architect and site drawings to discuss the different options available to provide access to the raised levels.

From the company's range of incline stair lifts, step lifts and vertical platform lifts, it was decided that an adjacent entrance configuration A3000 vertical platform lift was the best solution. The A3000 was offered with an 1,100mm wide x 1,400mm long usable platform, which is compliant for an adjacent entrance, and with a small travel of only 550mm the lift was installed with a 1,100mm high glazed gate at the upper level.

The A3000 comes with a fully glazed 2,000mm high door at the lower level and is then available with a 1,100mm high glazed gate up to a maximum floor to floor distance of 3,000mm. Above 3,000mm a fully glazed door with a shaft roof and automatic lighting complete the enclosed platform lift. The enclosure can be finished from either steel or glazed shaft panels depending on where within a building or externally it is being installed. Internal units are manufactured from steel sections but the external unit is manufactured from Stainless Steel and then powder coated to make the unit suitable for an external location.



Contact Axess4All on 0116 2744040 or visit www.axess4all.com

enq.137

Knauf takes care at Lister Hospital



Lister Hospital, Stevenage, has undergone a £150 million redevelopment of its entire site including building extensions and the refurbishment of many of its existing facilities. AD Architects' Jim Haigh selected Knauf AMF Ceilings to help deliver on cleanliness, hygiene, aesthetics and acoustics.

Thermatex Alpha and Thermatex Aquatec ceilings were fitted in most of the new buildings including the Ward Block, Emergency department, and other service areas. The Knauf AMF ceilings comply with the government's Health Technical Memorandum (HTM) which provides best practice guidance on the design and planning of new health care buildings and the extension of existing facilities.

020 8892 3216 www.amfceilings.co.uk

enq.138

Kaldewei: "Any grout joint is one too many"



The Asklepios Group, one of the largest companies in the German healthcare sector, and its members of the Green Hospital Program are focused on developing approaches to a "green" hospital. As part of the research project Greening the Patient Room – The Patient Room of the Future, Asklepios Engineer Michael Scherer, who campaigns for sustainability in hospital construction, explains the advantages of floor-level shower surfaces made of Kaldewei steel enamel 3.5 mm for hospital environments. "Any grout joint is one too many. Our approach therefore is to invest from the start in a quality solution without grout joints that will in the end last for much longer."

01480 498053 www.kaldewei.co.uk

enq.139



Berry Barriers helps hospital parking capacity

Like many hospitals, Derriford in Plymouth has to match ever increasing numbers of patients, visitors and staff with limited parking availability. The new 627-space, multi-storey car park on the North West Quadrant will go a long way towards easing the situation for the daily 8,000 footfall to the hospital. The eco-friendly design features green walls with climbing plants on the two lowest levels, steel lattice work on the next two and timber latticework on levels 5 and 6. Advice was sought from barrier specialists **Berry Systems** who recommended their RB1X spring steel buffers that 'give' in a collision to absorb impact forces and minimise damage to the barrier, vehicle and car park deck. After impact the barrier returns to its original position to provide ongoing protection. Berry Beam rails were used to give a more refined appearance than the traditional Armco W section.

01902 491100 www.berrysystems.co.uk

enq.140

'Powerful' product mix for hospital



Marshall-Tufflex's triple product mix of all-curved Odyssey trunking, DDA-compliant blue accessory boxes and freestanding Powerpoles proved to be a powerful team for the £500,000 refurbishment of the James Paget University Hospital in Great Yarmouth. The hospital, which provides acute care services and trains medical students, required a combination of cable management solutions for an upgrade to its Pathology Department. The CAT 6 compliant PVC-U system is renowned for its good-looking curved profile, which makes it impossible to clutter and easy to clean – imperative in healthcare environments.

01424 856600 www.marshall-tufflex.com

enq.141

Door closer is good for health



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

0121 766 4200 www.concealeddoorclosers.com

enq.143

Labgrade solution for oil manufacturer



Labgrade, the decorative, high pressure laminate with a solid core manufactured by Abet Laminati, has been installed in the refurbished Millers Oils laboratories at Brighouse, West Yorkshire. Supplied by Arnold Laver Bradford and installed by Cleckheaton Construction, the Labgrade, specially designed for use in sterile and hygienic environments, forms a hard-wearing, durable and attractive worktop. With a 16mm solid black core, coupled with a specially formulated chemical resistant decorative surface, it is designed to resist damage caused by most laboratory chemicals. The easy to clean surface complements the core, which provides a smooth decorative edge to resist the ingress of dirt and bacteria.

enq.145

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

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Ref: 46275

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Ref: 60713

Elliott hands over keys on £5.9 million hospital project...
Ref: 83883

On The Level



On The Level is one of the only manufacturers in the UK to produce bespoke solutions for concealed wet floor shower trays in any size or shape. The patented Birch ply underfloor shower formers are easy to install and ideally suited for special needs applications such as care homes, hospitals and specially adapted domestic bathrooms. On The Level formers are BSI approved for a safe load of more than 60 stone (380kg) and their shallow depth of just 24mm allows them to fit flush into most floor types. On The Level specialists are happy to explain the product and give technical advice, on-site if required, to devise solutions for specific projects.

01525 373202 www.onthelevel.co.uk

enq.142

Legrand launches new steel perimeter range



Cable management specialist, Legrand, has launched a new steel perimeter trunking system, offering a robust alternative to PVC. Ideal for high traffic and public environments such as schools, colleges and hospitals, the new range has been developed with Legrand's innovative design know-how to provide tamper-resistant security for cables and accessories with no visible screws post installation. The screwless finish also ensures a smoother edge and neater installation. Simple to install, the trunking uses a specially designed universal snapper clip to enable quick and easy configuration of compartments on-site.

0870 608 9000 www.legrand.co.uk

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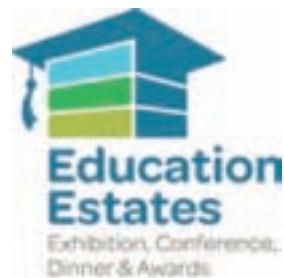


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Creating learning environments at Education Estates



Education Estates returns to Manchester Central on 11-12 November



In order for pupils and students to realise their full learning potential, they need the best learning environments. Facilities that are purpose built for learning, not just for today's needs but also those in the future – an environment that inspires and empowers teachers, lecturers, pupils and students alike.

Therefore, it is vitally important to realise the full potential of existing estates, maximising space and functionality with a focus on creating the ideal environment for learning. To bring out the best in people, we need to make the most of our buildings whether we're working with existing premises or starting from scratch.

Comprising a two-day exhibition and conference, Education Estates brings the education sector together to share best practice and knowledge and to learn from each other. The conference has been put together by the industry, for the industry and has two streams, one covering schools and the other covering colleges and universities.

James Lee, event director of Education Estates, said: "The strapline for Education Estates, 'Creating Learning Environments', is the focus we would like delegates, exhibitors and speakers to have at this key event in the calendar."

Education Estates at a glance:

- Two day conference and exhibition programme focused on the design, build, management and maintenance of education facilities
- The conference is complementary for individuals directly employed in schools, colleges, universities and local authorities while access to the exhibition is free for all
- The conference has two streams, one covering schools and one covering colleges and universities

Over 70 key speakers including:

- Stephen Beechey, managing director Education Sector & Investment Solutions, Wates Group

Continued overleaf...

'The exhibition will showcase products and services that are leading the way by providing innovative solutions for schools, colleges and universities'

- Marcus Fagent, head of education and children's services, EC Harris
- Jayne Bird, partner, Nicholas Hare Architects
- Ann Bodkin, head of design, Education Funding Agency
- Simon McEneny, assistant director for physical assets, regeneration, Liverpool City Council
- Andrew Rannard, deputy headteacher, Notre Dame Catholic College
- Anthony Seldon, master, Wellington College
- Martin Summersgill, director of estates masterplanning & development, Imperial College London
- Rachel Stephenson, programme director, Education Funding Agency
- There is also a 20 per cent discount available on Virgin Advance Fares for all delegates and visitors travelling from London to Manchester

The exhibition will showcase products and services that are leading the way by providing innovative solutions for schools, colleges and universities. Confirmed exhibitors include: ADP, AECOM, Atkins, Autex Acoustics, Britplas, Caloo, EC Harris, EllisWilliams Architects, Healthy Buildings International, Ponds for Schools, Marsh, Monodraught, Nuaire, The SCIN Gallery, Sika, Stantec, The StudyBed Company, Sweett Group, Tarkett, Trend Control Systems, Turner & Townsend and many more.



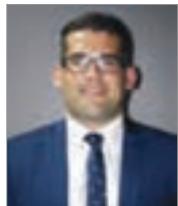
*For more information about Education Estates and to register please go to:
www.educationestates.com*

or contact the team on:

01892 518877

*Follow the event on Twitter using:
#EducationEstates*

Joe Rose's new role at Big Foot Systems



Sussex-based firm **Big Foot Systems**, who leads the way in non-penetrative rooftop support solutions, is delighted to announce the appointment of Joe Rose as Technical Marketing Manager. Joe has been with Big Foot for three and a half years and was previously Regional Specification Manager at Big Foot Systems – London & South East. In this role he provided support solutions for plant and associated services on flat roofs working with construction professionals along the supply chain, from architects to contractors. Joe's new role will involve managing all the technical and marketing functions of Big Foot Systems providing solutions for its customers throughout the world.

01323 844 355 www.bigfootsupport.com

enq. 146

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ACS wins recognition for making the business case for R22 efficiency...

Ref: 58611

Architect specifies Senior's systems at award-winning home...

Ref: 52580

National Federation of Builders shortlisted for its BIM training in CCISY awards 2014...

Ref: 95141

Turley urban designer appointed to international development panel...

Ref: 52222

Arup appointed lead advisor for Tokyo 2020 Olympics...

Ref: 39674

Eurobond launches BIM library

Eurobond Laminates has launched BIM files for its range of stone wool core internal and external wall and ceiling composite panels.

'It includes material colours and COBie datasheet parameters and the designer is supported by a wide range of construction details.'

The files are available in a number of file formats to help ensure that the majority of BIM users can benefit from using them.



The new BIM files – which include those for Europanel, Rockspan and Firemaster – are available via the company's new website or by contacting Eurobond Laminates Technical Service team.

Contact Eurobond on 02920 776677 or visit www.eurobond.co.uk

enq.147



A&G creates new specification team

A&G (Acheson & Glover) has announced the formation of a new specification team to look after its GB and Irish markets. Led by Brian Mulgrew (left), the new team will focus on working closely with architects and specifiers first hand to learn about their specific requirements and present solutions via A&G's innovative hard landscaping products. Along with Brian, his team comprises specification managers Phil Crichton (middle) and Jim Fanning (right) – who both have many years of industry experience. Jim is responsible for Ireland, South Wales and South East England, while Phil covers the rest of Great Britain. However, they will work closely as a team to make the company's specification process more efficient. "The new specification team has streamlined the operation across the group," explained Brian Mulgrew. "We have a structured strategy and the team has a clear focus on what we want to achieve – and that is to understand exactly what architects and specifiers require and to educate them about our products and how they can provide design solutions."

0845 601 5207 www.acheson-glover.com

enq.148

National paint show is unmissable



At this year's National Painting and Decorating Show almost 100 exhibitors will be displaying a vast array of products and offering great show-only deals. The major paint manufacturers use the event to launch new coatings on to the market, stockists tempt visitors with some fantastic discounts, suppliers pack their stands with a massive selection of tools, ancillaries and workday essentials – and there's always a sprinkling of never-before-seen items from entrepreneurs at home and abroad. One of the best things about the show is that it's not just a marketplace: there are live demonstrations of finishing techniques and applications going on continuously, and there's always a fun element, too.

020 8645 2433 www.paintshow.co.uk

enq.149

Ariston announce acquisition of ATAG



Ariston Thermo has announced the acquisition of ATAG Verwarming, the Dutch boiler manufacturer represented in the UK by ATAG Heating. Founded in 1948, ATAG employs 170 people, with a production plant based at Lichtenwoerde devoted to both domestic and commercial products. In 2013 ATAG generated net revenues of around €53 million, with an EBITDA adjusted of €8.4 million. Commenting on the acquisition, Phil Bell, managing director of ATAG Heating UK, saw significant advantages for the development of the ATAG brand in this country. He said: "ATAG Heating will be in a strong position to develop its share of one of Europe's largest heating markets."

01243 815770 www.atagheating.co.uk

enq.150

LABC system approval for Kingspan OPTIM-R



When it comes to thermal performance, Kingspan OPTIM-R Systems are right at the top of the pile and as a mark of their quality, they have now been recognised with LABC Registered System status, helping to speed up the Building Control checking and approvals process. To obtain LABC Registered status, Kingspan Insulation supplied testing and performance data for Kingspan OPTIM-R vacuum insulation panels, Kingspan OPTIM-R flex infill panels and Kingspan OPTIM-R fix panels. This information proved the products meet the requirements of the relevant Approved Documents to the Building Regulations when fitted in any of the six Kingspan OPTIM-R System applications.

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

enq.151

Pentair launches global contest



Pentair's Thermal Building Solutions, one of the leading providers of electrical heat-tracing systems, has launched the Pole Position contest to celebrate the 40-year anniversary of its Raychem self-regulating technology. Inspired by the first Formula E electric racing championship, the global initiative invites customers, installers, distributors, employees and the general public to participate in an online contest with a chance to win a number of exciting prizes including: racing red iPods; Formula E tickets; and a free London FE event package for two. First introduced by Raychem in 1974, the company's revolutionary parallel polymeric self-regulating heat-tracing technology led to the development of a wide range of innovative solutions for the commercial and residential sector.

enq.153

West Leigh Limited announce new director



Trevor Woskett (left) has been appointed as a director of **West Leigh Limited** with responsibility for the Cotswold Casement Company. Trevor joined the company in 1985 and was appointed general manager upon the retirement of Mike Partridge in 2009. Bernard Briggs, managing director of West Leigh, said: "Trevor's commitment to the company is without question and he has made a considerable contribution to the success of Cotswold Casements."

enq.155

Condair – the new name for JS Humidifiers



From the 15 October JS Humidifiers is rebranding to **Condair plc**. Since becoming a Member of the Condair Group in 2011, JS Humidifiers has been offering the Condair range to its customers as well as developing and manufacturing Condair products. Tim Scott, head of sales at Condair plc, comments: "Since JS' acquisition by Condair in 2011 we have become an active and valued part of the group, and enjoyed getting to know our partners, who all share our passion for humidification. We feel the time is now right for us to take on the global brand of Condair to allow us to streamline our local and international operations as well as communicate our role within the wider organisation."

enq.157

ACS wins recognition for business case for R22



Specialist supplier Air Conditioning Solutions (UK) Ltd (ACS) has received industry recognition for its pioneering work with the Connells Group on R22 replacement, by securing the Retail Project of the Year Award at the RAC Cooling Industry Awards 2014. The company was rewarded for its commitment to helping its customers tackle the replacement of old R22 equipment in a planned phase out. In the case of the Connells Group, the estate had a real mix of equipment from all the major air conditioning manufacturers, due to the historic development and expansion of the group.

01707 282880 www.mitsubishielectric.co.uk

enq.152

Saniflo's new regional field sales manager



Saniflo UK has welcomed KBB industry specialist Martyn Andreoli to the post of southern regional field sales manager. Martyn, who is responsible for a team of four, joined the market leader for macerators and pumps in May and has since set about getting to grips with the Saniflo culture, products and customers. Martyn's KBB career includes sales positions with top brands Wilo, Thomas Dudley, Cemex and Marshalls. Martyn comments: "Saniflo is a perfect fit with my career and expertise. I understand the challenges and privileges of being a market leader and a European manufacturer."

020 8842 0033 www.saniflo.co.uk

enq.154

From design to completion with ITW



ITW Construction Products, a leading manufacturer of fixing, fastening and drilling systems for wood, steel and concrete applications and ITW Industry, specialists in software, components, fasteners and equipment for timber construction, are pleased to announce that from September 2014 they will function as one combined business, under the name of ITW Construction Products.

The newly consolidated ITW Construction Products business will comprise primarily of their five key sub-brands: Alpine and Gang-Nail, Cullen, Paslode, and Spit. The ITW Construction Products brands offer customers a full range of products and services to see build projects through from design to completion.

0800 652 9260 www.itwcp.co.uk

enq.156

Kingspan guides for Welsh Building Regulations



As part of its on-going commitment to provide customers with the highest level of technical support, **Kingspan Insulation** has produced guides for the new Approved Documents to Part L of the Building Regulations in Wales. The publications make it easy to get up to speed with the latest regulatory requirements for the conservation of fuel and power on domestic and non-domestic; new build and refurbishment projects. Designed for everyone from architects and developers to installers and end users, the guides provide a concise but comprehensive overview of all aspects of the Approved Documents.

01544 387384

www.kingspaninsulation.co.uk/buildingregulations

enq.158

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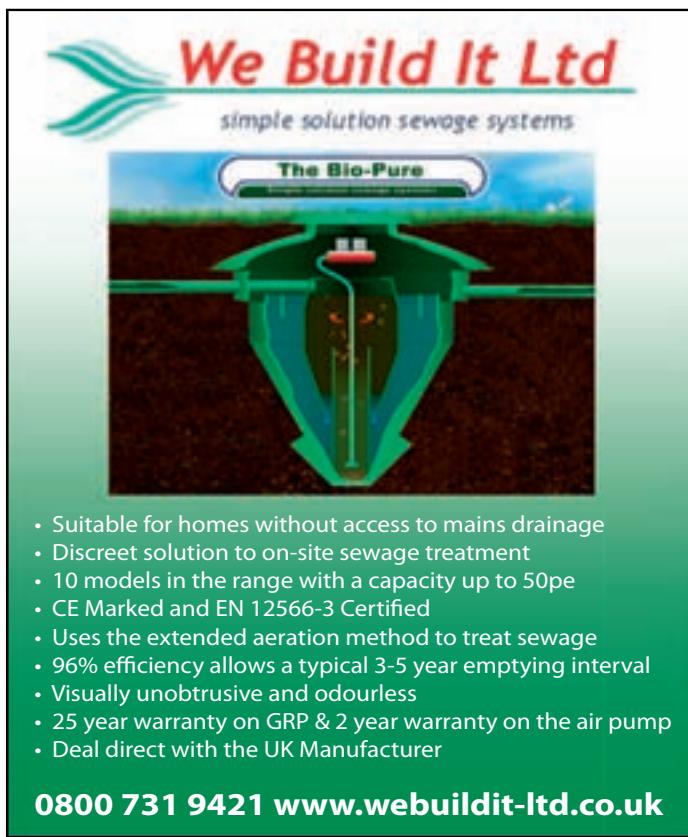
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New guide to timber products from Timbmet



Timbmet, one of Europe's major suppliers of timber and panel products, has released a new 96 page comprehensive *Timber Product Guide*. The company has been supplying timber to the UK market for over 70 years and has an industry leading breadth of offer. Aside from more than 30 hardwood species (most are FSC® or PEFC certified), Timbmet also provides a wide range of manufacturing services, including bespoke mouldings and fire retardant products. The *Timber Product Guide* details all of these, including technical information on the timber species available. In addition it contains information on the Timbmet Flooring collection and Timbmet Engineered Components (TEC).

01865 860303 www.timbmet.com

enq.161

Hope extends range of performance concretes



Britain's leading independent concrete supplier, **Hope Construction Materials**, has extended its range of high performance mixes to complement its existing array of quality-assured readymix concretes. The performance mixes – including HOPEFast®, HOPEFoam®, HOPETough®, HOPEEco®, HOPESeal® and HOPEFibre® – have been designed by Hope's technical team to meet specific construction needs, from high early strength and extra durability to waterproof and lower carbon mixes. All Hope concretes meet the BS8500 standard and are available virtually nationwide. HOPEFast® is designed to achieve rapid strength.

0207 647 6220 www.hopeconstructionmaterials.com

enq.162

enq.163

Reynaers at Home helps to drive Passivhaus delivery in the UK

Leading provider of aluminium architectural glazing systems Reynaers at Home has highlighted architects' concerns surrounding sustainability and energy efficiency in residential housing.

Head of Reynaers at Home Hugh Moss said: "In our architects' survey, 57 per cent of British architects said the most popular industry trend today in residential housing was energy efficiency. When asked what most homes were missing, some 13 per cent responded with the issue of sustainability."

Both of these topics are addressed with the CS range of aluminium windows from Reynaers at Home, which offer some of the best technical performances of an aluminium system available on the market today. There is even a solution



suitable for Passivhaus' stringent standards, which were introduced to reduce the energy demands of buildings.

Reynaers at Home's CS 104 door, with insulating panel, has been certified as a Passivhaus

component. As well as the necessary thermal calculation, the CS 104 has gone through a series of stringent tests before becoming the first aluminium door to gain this certification. With an insulation value U_d of $0.75 \text{ W/m}^2\text{K}$, the CS 104 achieved an insulation value of $0.80 \text{ W/m}^2\text{K}$ on the installed element. Its air tightness achieved a class 4 in all tested climates, over and above the requirement of Passivhaus.

The company's CW 50-HI curtain wall system is also certified suitable for Passivhaus application. This certification requires an overall insulation value of max. $0.7 \text{ W/m}^2\text{K}$ using glass with $U_g 0.7 \text{ W/m}^2\text{K}$ and a panel with U_p of $0.25 \text{ W/m}^2\text{K}$. With the CW 50-HI profiles, the curtain wall system achieved the overall insulation value of $0.66 \text{ W/m}^2\text{K}$.

enq.164

Contact Reynaers at Home on 0121 421 9707 or visit www.reynaersathome.co.uk

Ceilings – realising excellent acoustics



The importance of good acoustics is often underestimated and it can be difficult to establish a direct, data-based relation between acoustics and labour productivity. Hunter Douglas has placed this topic on the agenda with a new whitepaper. The document presents ceilings as an ideal means of realising optimal acoustics. The whitepaper looks at four key areas. In healthcare, for instance, good acoustics contribute to better recovery of patients, while in schools they improve students' learning performance. In office spaces, good acoustics improve labour productivity. In public spaces, such as restaurants, noise absorption is also vital.

01604 766251 www.hunterdouglas.co.uk

enq.165

Armstrong is flush about its new Axiom range



Armstrong Ceilings has enhanced its Axiom range and launched a new brochure introducing the full range of aluminium solutions. Axiom solutions provide an aesthetic finish for wall-to-wall and discontinuous ceiling installations, meeting the requirements of contemporary specifications by giving architects and interior designers the ability to create attractive and functional ceiling features quickly and cost-effectively, using pre-engineered aluminium trims, transitions and profiles, and in the case of discontinuous ceilings, canopies. The new Axiom brochure is available to download from www.armstrongceilings.co.uk/commlgeu/eu1/uk/gb/#.

0800 371 849 www.armstrongceilings.co.uk

enq.166

Bison's precast concrete selected for Welsh super school



Bison Manufacturing, a leading precast concrete manufacturer in the UK, will supply the £50 million Sobell Redevelopment in Aberdare with precast floors and stairs. The new school will have capacity for 1,600 students and will feature an athletics track and stadium together with multi-use games courts and a skate park.

Working with main contractor Laing O'Rourke, Bison will provide a total of seven complete stair and landing units together with 14,000 sq m of Hollowcore flooring. Bison's off-site manufacturing capability complements Laing O'Rourke's DfMA (Design for Manufacture and Assembly) agenda, reducing construction time and cost while enhancing overall site health and safety.

Mike Nelson, sales and commercial manager at Bison Manufacturing said: "On large projects such as this it's imperative to ensure that schedules are tightly adhered to. Using off-site manufacture and assembly ensures that all deadlines are met."

Aberdare Community School is scheduled for completion in April 2015 and the full Sobell Redevelopment with athletics track and stadium in September 2015.

01283 817500 www.bison.co.uk

enq.167

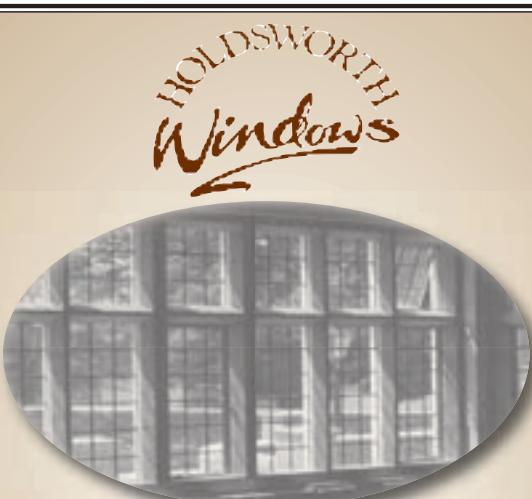


A range of sliding panels called Loggia®

In reply to the growing demand for aesthetic, multifunctional facade elements, RENSON® offers a range of sliding panels called Loggia®. These systems open a wide range of possibilities as a sun shading system, visual screen or fence, but also for intensive ventilation, daylight control or partial shading. The Loggia® sliding panels consist of a solid aluminium frame, fitted with aluminium blades. Depending on the desired enclosure and the required see-through visibility, the blades can be positioned at different inclinations and with different blade pitches. Equipping the Loggia® type LG.130 with manually moving blades, the system not only allows the panel to be moved into the desired position, but the blades can also be rotated into their ideal position, according to the position of the sun and the desired level of shading. These sliding panels can also be delivered with integrated wind tight screens (LoggiaScreen4Fix) or wooden blades (Loggiawood®).

01622 754123 www.rendonuk.net

enq.168



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Web: www.holdsworthwindows.co.uk

enq.171

A window at the seat of learning



As part of the extensive remodelling and improving of schools across the London Borough of Islington, Reynaers aluminium systems have been installed throughout Islington Arts and Media School in a multi-million pound scheme that has turned the school into a vibrant, modern learning facility.

Bold sweeps of Reynaers CW 50 curtain wall feature on both the new main entrance and the expansive new facilities, adding large expanses of glazed areas that bring natural light right into the heart of the school. Strategically located runs of Reynaers Brie Soleil offer sun screening, minimizing the effect of solar gain and glare, while allowing the ingress of daylight.

enq.169

RigiSystems facade the new face of Greenwich



Around 10,000 sq m of RigiSystems CladScreen facade system have now been installed on block one of London's prestigious new Greenwich Square development. While utilising the CladScreen system, most of the panels were custom engineered in order to fit in with the architect's vision for this unique development in London's heartland. Greenwich Square sits on the vacant brownfield site of the former Greenwich District Hospital. The new scheme contributes towards the ongoing regeneration of the area by providing new homes, a public destination and a community hub.

01905 750500 www.rigisystems.org

enq.170

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enq.172

Residential projects on the rise for T R Freeman

Commercial roofing specialist T R Freeman Limited is currently enjoying a surge in contract wins, together worth in excess of £750,000, for new build residential projects which blend modern roofing systems with traditional architectural metals to add features to the properties being constructed. The schemes are all situated around central and greater London, and are a mix of private and social housing provision:



- **174-178 Courtauld Road, Hillrise, Islington** – Four, five-storey apartment blocks which are part of the Joinery development in the northwest of the borough. Matt black ANTHRASZINC cladding to fifth floor dormer windows and inset terraces on a single block, and FalZinc cladding to the third and fourth floors, pitched roof and substrate areas on the other three blocks. Main contractor: United House Limited. Client: Family Mosaic.
- **Blackwall Lane, Greenwich** – A five-storey apartment block and three, three-storey townhouse terraces on Phase 2 of The Peltons (left), a redevelopment of three run down sites. To the apartment block – IKO bio-diverse growing substrate on hot melt waterproofing to the flat roof areas, and Aurubis Nordic Brown Light copper cladding with standing seams to the top floor. To the townhouses – Soprema Light Grey single ply membrane to flat and ancillary roof areas, Marley Thrutone Fibre Cement Slate to the mansard roofs, and lead flashings to the windows. Main contractor: Galliford Try. Client: Kitewood Estates Ltd and Peabody.
- **Alderwick Drive, Hounslow** – A standalone, residential, L-shaped apartment block consisting of 20 new homes. VMZinc Pigmento Brown cladding and associated cappings to the top most, fourth floor. Main contractor: Bugler Construction. Client: Shepherds Bush Housing Group.
- **Unity Place, Sutherland Road, Walthamstow** – A development close to Blackhorse Road tube station which will provide 80 homes in several, three storey apartment blocks. QUARTZZINC roofing and cladding to 10 uppermost skylight rooms which crown the apartment tops. Main contractor: Kier Construction-Eastern. Client: Christian Action HA and Islington & Shoreditch HA.

01223 715810 www.trfreeman.co.uk

enq.173



New foodbank has new roof

The new Salvation Army Vine food bank in New Addington is providing vital support to those in difficult financial circumstances providing food, directing people to relevant services and providing a listening ear in times of crisis. The Salvation Army property department provided the Croydon based facility with an old scout hut which was in much need of refurbishment. This resulted in the specification of a Sika Liquid Plastics Decothane waterproofing system for the roof refurbishment to ensure longevity and protection for the building. The company discounted their labour and materials in order to help the Salvation Army with major cost savings on the project. To ensure durability, prolonged existence and protection of the building, Sikalastic 625 was specified which has a 10-year material guarantee. Each bolt head and fixing was bridged with Sika Flexistrip then installed with Sika Reemat Premium patches, pre-cut to requirements.

01772 25978 www.liquidplastics.co.uk

enq.174

Fakro roof windows for Passivhaus building



FAKRO have supplied L-shaped roof windows to the Green Unit*, a modular, prefabricated, Passivhaus design. FTP U5 non-vented, triple-glazed windows with a U-value of 0.97W/m²K were used for the upper element with BDR tilt and turn openers in the wall. Set in a green roof, windows with an eastern aspect also have external AMZ Awning Blinds to offset solar gain. Jonathan Finnerty of the Green Unit commented: "The requirement to be carbon neutral meant that procurement for every element was considered in considerable depth. FAKRO worked with us to achieve what we required and gave us highly valuable advice."

01283 554755 www.fakro.co.uk

enq.175

Maintenance free cedar shingle solution



John Brash Cedar Shingles were specified for the new Center Parcs Village, Woburn Forest, by David Gallimore at Holder Mathias Architects. He previously specified John Brash Western Red Cedar Shingles at Whinfell Forest, in Cumbria, and was very pleased with the look, both on first installation and as the product gently weathered on-site. He felt that shingles provided a 'soft, friendly material'. Another factor in the specification of the western red cedar shingles is that it would provide a low maintenance solution that wouldn't need any further treatment. JB Shingles No. 1 Grade Blue Label is the premium quality shingle without defect. It must be 100 per cent clear, edge grain and heartwood.

01427 613858 www.johnbrash.co.uk/shingles-shakes

enq.176

King's College school bowled over



Sixth form students at King's College Wimbledon are guaranteed a dry start to the new term, both in the classroom and the cricket pavilion thanks to Kemperol from liquid waterproofing specialists Kemper System.

Following installation of the liquid water-

proofing system on the sixth form centre, the client was so pleased with the result that they also specified it for the cricket pavilion.

The sixth form roof structure itself was in good condition, but the ageing felt roof was beginning to break up.

If the roof had been fully stripped and re-felted, then a considerable amount of air handling equipment on the roof would have had to be removed. By choosing Kemperol, the equipment was raised to allow the waterproofing system to be installed and lowered once cured. There were also numerous skylights that were more easily incorporated into the seamless membrane with the liquid system.

Paul Brown from roofing contractors Avant-Garde Roofing, who laid the Kemperol, pointed out that insurance was also a key issue: "It can be very difficult for some felt roofing contractors to get insurance on these types of roofs because of the fire risk associated with the torches," he said:

"Kemper System is cold applied so there is no fire risk whatsoever."

The client was also very happy with the final result: "I was expecting the project to take several weeks, but in the end it took less than a month," said Jason Sprague, King's College head of maintenance. "Avant-Garde and Kemper did such an excellent job that we asked them to reroof the cricket pavilion, which had started to leak."

It would have been too expensive to replace the pavilion's asphalt balcony roof entirely. Therefore, taking into account the good work already carried out on the sixth form roof, the client chose Kemperol with rubber matting on top of that for extra protection against the cricket shoe studs. Kemperol completely saturates a non-woven reinforcement fleece and cures to form a seamless, monolithic membrane that is tough, flexible and bonds permanently to the substrate – in this case the old asphalt roof.

Contact Kemper System on 01925 445532 or visit www.kempersystem.co.uk

enq.177

New outward-opening window from Schueco



New from Schueco UK Ltd is AWS 70 SC – an insulated, outward-opening window that delivers Schueco 'build quality' at an economical price, providing a perfect solution for new and replacement windows in houses and apartments. With a depth of 70 mm, slim sightlines from 63.5 mm (outer frame/vent) and a choice of five vent profiles offering optimum cost/size/weight options, Schueco

AWS 70 SC is ideal for the fenestration in punched openings, ribbon windows and curtain walling. The system can accommodate double- or triple-glazed units and achieves a typical 'U' value of 1.5 W/m²K with 1.0 W/m²K glazing units, which makes it compliant with Document L.

01908 282111 www.schueco.co.uk

enq.178

Airtightness – bridging the gap



The upgrade conversion of a 1964 brick and timber dwelling built by Mowlem (Scotland) Ltd involved an attic conversion, ground floor front and side extension, as well as a full height extension to the rear. On the front and side extensions, Goodburn Baillie (Architecture & Building) Ltd put Wraptite-SA from the A. Proctor Group Ltd to the test. Refurbishments can be complicated projects, with timelines and project plans easily diverted by working with old and new, so it made sense to plan in safeguards against delays and the inevitable British weather. Wraptite-SA combines important properties of vapour permeability and airtightness in one affordable self-adhering membrane.

01250 872 261 www.proctorgroup.com

enq.180

Synseal's WarmCore delivers true innovation



Synseal is proud to introduce WarmCore, an innovative aluminium folding sliding door system which incorporates a radically different product design approach to create a high performance fenestration framing solution: warm aluminium. Designed from scratch, every single component has been concept sketched, detail designed, prototyped, toolled, trial installed and rigorously tested by Synseal's market-leading R&D team. WarmCore is a high quality aluminium, bi-fold door solution with peerless thermal performance to ensure end-user comfort, all year round.

01623 446207 www.synseal.com

enq.179

Comar's complete new build



Comar Architectural Aluminium Systems, with their approved fabricator Formes Alutek Ltd, recently completed a new build office building which forms part of the West of Duddon Sands Offshore Windfarm. A striking curved facade was installed and Comar 6EFT 4 sided SG with concealed vents was selected as it provides a structurally glazed curtain walling solution with EPDM or silicon seals, which creates facets at 7.5° increments convex or concave. Comar EFT 4 sided offers architects the opportunity to maximise large glazed areas as it has the slimmest glazing seals available on the market.

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

enq.181

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182

Steni's aggregate panels now BBA-approved



All three flagship products from specialist cladding manufacturer Steni UK are now BBA approved. Steni's key aggregate-faced panels, Nature and Imago, have won BBA approval (certificate number 09/4662) and join Steni Colour in this accreditation. Steni's Nature panels are faced with natural stone and are available in five grades and 20 standard colours. Imago panels are also aggregate faced but with ceramic coloured natural stone in 12 colours. Steni Colour features a smooth surface of electron beam cured acrylic – 100 per cent acrylic without the use of solvents – and is available in three gloss levels and up to 60 standard colours.

01978 812111 www.steni.com

enq.183

Academy adopts Coxdome enlightenment



Links AP Academy in St Albans, Hertfordshire, has undertaken substantial refurbishment work featuring the installation of roof lights and barrel vaults from Jet Cox. The project involved the removal of leaking and thermally inefficient existing glass roof lights from toilet blocks, replacing them with triple skin polycarbonate units from the Coxdome Trade Range. Then teaching and circulation areas to the school benefited from the installation of triple skin Jet Cox Barrel Vaults up to 10m in length; admitting ample natural daylight to encourage a feeling of well-being as well as cutting down on electricity usage.

0121 530 4230 www.jet-cox.co.uk

enq.185

Bowled over by design at cricket club



Metal Technology curtain walling, window and door products have been installed on a unique development of apartments at Gloucester County Cricket Ground. Designed by Stride Treglown and built by Galliford Try for Linden Homes, the scheme of 147 one- and two-bedroom apartments is part of the redevelopment of the site in Bristol that will see the ground become a major place for national and international cricket. The location of the apartment blocks around the eastern edge of the ground maximises the view across the pitch. Metal Technology's System 17 capped curtain walling enhances the contemporary design of the apartment scheme.

028 9448 7777 www.metaltechnology.com

enq.184

Freefoam fascia used for dormer feature



Prestigious housebuilder Shanly Homes has used Freefoam fascia on a new development at Helios Court, Maidenhead. The exclusive apartment block features a double fascia dormer detail using Freefoam roofline products to create an attractive stepped effect beneath the flat dormer roof.

Freefoam 150mm Full Replacement Square Leg Fascia Board is supplied for both levels and cut on-site to 100mm for the lower section. General Purpose Board is used for one level and Vented General Purpose Board for the other level, to provide ventilation. Each dormer is also constructed to slope slightly from front to back, where rainwater discharges into a secret gutter and then on to the main roof.

01604 591110 www.freefoam.com

enq.186





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Lifetime roofing metals

Eight steps to the perfect roof

SIG Design & Technology's Sales Director Ross Finnie outlines how the perfect roof can be built using a structured approach to roof design and specification. He offers useful guidance which you can apply time and time again to ensure maximum longevity for a variety of roofing systems

Designing the perfect roof has never been more challenging. Considerations follow a four stage process; establishing the client's brief, ensuring compliance, finding the solution and roofing options.

So first of all – what does the client need this specific roof to do? Its design and construction must meet a matrix of complex and strategic variables from planning points and performance requirements to BREEAM points on buildings and BRE ratings for products. Then there's cost, structural requirements and buildability.

Stage two of the job is to waterproof a roof using an engineered solution specific to the project. It's hard to negotiate the compliance minefield when there are so many different standards for any one building element. Once the brief is understood, options can be evaluated, materials chosen and the methodology defined.

At stage three when finding the solution, the formula is about cost + design + compliance. So what are the influencing factors when selecting the correct specification? There are four main waterproofing solutions; single ply, hot-melt waterproofing, pre-formed zinc roofing and cladding and cold, liquid applied rubber waterproofing systems.

Stage four deals with waterproofing options. Project Merlin's wave form roof is an example of a high quality single ply waterproofing system. The building is a warehouse with a steel frame. It's a low cost metal deck without roof-mounted plant. The project is cost driven, over a short programme. Why specify single ply? It has a 50 year plus track record. It's suitable for new build or refurbishments; low in capital cost and cost in use and installation is safe, rapid and clean. Plus it's from a well managed and regulated sector, courtesy of SPRA, the Single Ply Roofing Association.

A hot melt waterproofing system is of concrete construction where there are limited falls. It offers circulation area/extended recreational areas and is low maintenance. There needs to be design awareness of heavy live loads on structure. So why choose hot melt? The key benefits are long life expectancy and water is unable to track under a fully bonded system, ideal for green roofs on concrete. Material characteristics to note are that it's compatible with bitumen and has a life expectancy to match that of the building. It's easy to install at temperatures as low as -18°C and as it's highly resistant to impact damage, hot melt is

guaranteed for up to 35 years.

Pre-formed zinc roofing and cladding offer prestige commercial buildings dramatic aesthetic appeal. While representing significant investment, the building has long durability/life expectancy due to natural patina formation. Constructed from robust material, there's limited maintenance, it's 100 per cent recyclable and offers Excellent BREEAM credentials.

Cold, liquid applied rubber waterproofing comes into its own where there is complex detailing such as a plant room. It's useful where work is difficult to access and/or there's restricted working space. However, it needs to be a cost effective on metal deck refurbishment. It's cold applied using no hot works and in temperatures as cold as 0°C, liquid coatings cure quickly. Water repellent on application and able to be applied on damp surfaces, its excellent elasticity and tensile strength make it ideal for both refurbishment and new build projects.

Fortunately, the specifier can benefit from comprehensive technical support from a manufacturer or supplier to include BIM objects, standard details, NBS Specifications, Cut-to-Falls insulation design, wind load and thermal calculations and third party accreditation.

The blog at www.singleply.co.uk/blog explores some of the common problems in roof design and system choice.

See overleaf for the eight steps to the perfect roof...



'Pre-formed zinc roofing and cladding offer prestige commercial buildings dramatic aesthetic appeal'

Ross Finnie





Eight steps to the perfect roof

- 1** The right products. Opt for early independent support from an experienced supplier: make an informed choice.
- 2** Design expertise. Don't risk uncoordinated design input. Have your roof designed, specified and co-ordinated from the deck up by a single PI insured designer.

3 Meet the regulations. Meet all the statutory requirements by using an independent, expert design service and get full, free technical support until completion.

4 Confidence in supply. Choose a proven materials supplier with local availability, shorter lead times and high stock levels.

5 Experienced contractors. Make sure your roof's fitted by an experienced, accredited contractor who will integrate the roof system with your whole building so it performs well and looks great.

6 Monitored installation. Buildability issues can crop up on site. Choose a supplier who will monitor the installation and provide quality field support for your contractors.

7 Full guarantees. Don't fall between suppliers who may dispute responsibility in the event of a problem. Have the roof designed, installed and guaranteed from the deck up by a PI insured single entity.

8 Planned maintenance. A whole roof service, plus maintenance plan will protect you and give your client confidence.

enq.601



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enq.192

LRWA launches e-learning training module



The introduction of new products into the liquid roofing market has meant that there is a considerable choice of materials to be applied to various roof types and details. As a leading industry body, the LRWA recognised the potential gap in skills. With this in mind, the LRWA are proud to announce the launch of its e-learning training module, designed to educate LRWA members and roofing contractors on how to expertly install liquid waterproofing systems. They worked closely with manufacturer members to develop a training module that covered all aspects of liquid roofing, but with a particular emphasis on the technical and practical aspects of using the differing chemistries within the industry.

0207 448 3859 www.lrwa.org.uk

enq.193

Sika suits iconic Liverpool building



A Sika Liquid Plastics waterproofing system has proved to be the perfect fit for one of Liverpool's most historic office buildings, the Cotton Exchange. Registered Sika Liquid Plastics contractor and national concrete repairer Grade 2 Specialist Structural Repairs, based in the North West, were specified for the job after the company applied to go on a liquid plastics contractor scheme. Part of the process Grade 2 had undertaken was to put three projects forward, the Cotton Exchange being one of them. Grade 2 were briefed to carry out isolated concrete repairs to wall areas along with restorations to all the decoration works to the exterior of the property.

01772 259781 www.liquidplastics.co.uk

enq.194

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Green roofs are now replacing deep planters after roof refurbishment works on the Victoria Shopping Centre, Nottingham. The Optigreen Meander Solution was chosen to maximise rainwater retention and to control water run-off during heavy rainfall conditions.

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enq.196

Steadmans supplies materials for TIS Cumbria



One-stop-shop building products manufacturer Steadmans has supplied materials for TIS Cumbria's new buildings, West Cumbria's fabrication, welding and non-destructive testing specialists. Three new buildings, totalling 1,400 sq m in floor size, have been completed at the organisation's existing site in Workington. Steadmans supplied in excess of 5,600 sq m of AS35 100mm composite panels in a combination of goosewing grey and ocean blue and 100 sq m of triple skin roof lights. TIS Cumbria also utilised approximately 2,300lm of flashings, including ridge, barge, and trimline gutters and 112lm of zed purlins, all of which were manufactured at Steadmans' site in Cumbria.

enq.197

Sika Sarnafil specified for Leisure Centre



A Sika Sarnafil waterproofing roofing system has proved to be the perfect fit for the Donyngs Leisure Centre, Redhill following a major £4.1 million upgrade and refurbishment. The new roof, which entailed overlaying a Trocal installation from 30 years ago now includes 2,000 sq m of Sika Sarnafil waterproofing system. The isolating layer used was Sika Sarnafil type 'T' fleece x 300g/m² with the waterproofing membrane layer being S327-18EL which was mechanically fixed with IF/IG-C 82 x 40mm membrane pressure plates and SFS BS stainless steel self-drilling fixings. All upstands/outer eaves were then covered with preformed Sarnametal closures.

01707 394444 www.sarnafil.co.uk

enq.199

Composite Marmox soundboard proves ideal



A contractor specialising in underfloor heating has used Marmox SoundBoards on a challenging project to join two Thameside apartments to create an 11-room property: overcoming significant difficulties in terms of differences in floor level, as well as providing a waterproof and acoustically attenuated subfloor. Gaia climate solutions used two different thicknesses of Marmox SoundBoard in order to create a 'level playing field' - over which the DEVI electric heating system could be laid. Finished with a mix of 20mm ceramic tiling and 14mm high quality timber flooring, the make-up of the Marmox SoundBoard effectively insulates against any direct sound transmission to the floor beneath.

01634 835290 www.marmox.co.uk

enq.201

Ductwork revolution for AG Barr



Cosaf, inventors of GatorDuct, the world's most advanced ductwork system, has just produced and installed a unique bespoke air distribution system for soft drinks manufacturer AG Barr, in the production hall at its manufacturing plant in Milton Keynes. The ducts make a colourful and creative installation style feature, as they are scaled replicas of actual AG Barr soft drink cans. It features six duct systems, each containing five duct cans, providing 30 soft drink can duct sections in total. AG Barr demonstrated their corporate social responsibility in selecting Cosaf to create one of the world's most sustainable cooling systems on the planet today.

0845 873 0660 www.gatorduct.com

enq.198

Kawneer helps British Gas power up



Curtain walling from architectural aluminium systems supplier Kawneer has helped a new regional headquarters for up to 1,000 British Gas Business staff achieve a BREEAM Excellent rating. Kawneer's AA110 zone/mullion-drained curtain walling with 65mm sightlines features on the two wings of the £19 million state-of-the-art office building on Oxford Business Park, part of the former Austin Rover works at Cowley. It was specified by architects Frank Shaw Associates, who has specified Kawneer systems on commercial and industrial projects for the past 20 years. The company detailed the building to allow a simple interface with the construction of the external envelope.

01928 502500 www.kawneer.co.uk

enq.200

Kingspan OPTIM-R the product of choice



The Kingspan OPTIM-R Roofing System and Kingspan ThermaTaper TT47 LPC/FM have been installed at Meadowfields Extra Care Housing Scheme in Thirsk, North Yorkshire, helping to deliver optimum thermal performance and the required tapered fall, with a minimal build-up. Kingspan OPTIM-R panels use vacuum insulation technology, which allows them to achieve an aged thermal conductivity of 0.007 W/mK. Kingspan OPTIM-R panels hold LABC Registered System approval, and can help to minimise the Building Control checks and approvals process when installed to Kingspan's recommendations, saving both time and money.

01544 387384 www.optim-r.co.uk

enq.202

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Gilberts helps deliver first of its kind schooling



Pupils and staff at a new £44 million unique school campus will work in a comfortable environment thanks to the innovative ventilation strategy delivered by **Gilberts of Blackpool**. Inverclyde Council's 18,000+ sq m Port Glasgow Community Campus is the first of its kind in Scotland, combining two three-storey High Schools and a single-storey Additional Support Needs (AND) School on one site. The build is expected to achieve a 'very good' rating under BREEAM, largely due to its utilisation of natural ventilation provided under a turnkey package by Gilberts. The ventilation blends seamlessly into the architecture, as a result of the slimline design of Gilberts' louvres.

01253 766911 www.gilbertsblackpool.com

enq.205

The world's first high definition stove is launched



Charlton & Jenrick Ltd has now added a complete new range of high specification multi fuel stoves to its stove portfolio. Known as the Purevision™ HD range, it comprises six models, three freestanding and three inset with stand and log store options available for the freestanding versions and three or four sided trims for the insets. The models are sized as 5kW standard, 5kW wide and 8.5kW nominal output and contain technologically advanced patent pending design features.

Emissions meet EU leading DIN+ levels and already achieve current emission and efficiency proposals for 2022 European Eco-Design standards, which are far tougher than current mandatory norms. DEFRA exemption for wood-burning in a smokeless zone was a formality, with test results up to 97 per cent below permitted levels of visible smoke. These highly efficient stoves produce a clean burning high definition flame that has to be seen to be believed.

Experience real living flames in high definition with Purevision HD.

0845 5195 991 www.charltonandjenrick.co.uk

enq.206

enq.207

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enq.208

Underfloor air con for new build in Ghana



One Airport Square is a 20,000 sq m mixed-use development currently under construction in the growing commercial district of Airport City in the Ghanaian capital Accra. To supplement the natural ventilation within the building, an AET **Flexible Space** underfloor air conditioning system

provides cooling to the class A office areas. The air is introduced into the space via a fan terminal or 'fantile' unit, which has the added benefit of individual personal control of airflow and temperature via the integrated Fatronic controller, and this building is served by more than 900 standard TU4 fantile units. It is the first building in Ghana to feature underfloor air conditioning.

01342 310400 www.flexiblespace.com

enq.206



Horstmann plays it cool at Bath brewery

An unusual application of a **Horstmann** motorised central heating zone valve in an in-house brewery is ensuring the ale lovers of Bath are enjoying their favourite tipple, brewed to perfection. The James Street Brewery, situated in the famous Bath Brew House public house, is a six barrel micron brewery which is fully on show in the Brew House and supplies beer to both the venue as well as its sister pub in Bath, The Cork. The mash tun, liquor tank and copper are located on the ground floor with the three large fermenting vessels located on the floor above in the glass fronted Tank Room. It is here that the three Horstmann ZonePlus Z series motorised valves are located, each controlling volumes of cooling water flowing around the jacket of the fermenting tank to ensure precise temperature control of the fermenting beers is maintained. The valves featured are Horstmann Z322 mid position diverter valves that are part of the redesigned Horstmann ZonePlus range.

enq.209

TROX UK investment in prestigious office



TROX UK's investment in manufacturing technology and R & D helped the company secure and deliver a prestigious £2.3 million order for the Co-operative Group's head office. One Angel Square in Manchester is a landmark commercial building delivered by BAM as main contractor. Reflecting the Co-operative Group's commitment to environmental sustainability, it was awarded the highest ever BREEAM Outstanding score of 95.16 per cent. The building is expected to operate with at least an 80 per cent reduction in carbon emissions, and a 50 per cent reduction in energy consumption. TROX HVAC systems have been installed on all 14 storeys of offices as well as for the basement car park of the new head office.

enq.210

enq.211

Polypipe's Domus Radial comes out on top



Polypipe Ventilation has announced that their Domus Radial semi-rigid duct systems have been third party proven to maximise whole-house ventilation system performance, especially when used with Mechanical Ventilation with Heat Recovery (MVHR) in larger properties. Tested by the BRE for inclusion within the Product Characteristics Database (previously SAP Appendix Q), Domus Radial was not only found to be equivalent to traditional rigid ducting in smaller builds but exceeded the performance in properties with four or more wet rooms or kitchens. It was introduced as an alternative to traditional branch-based ducting systems and offers less air leakage, increased air flow, easier installation and commissioning.

enq.212

enq.213



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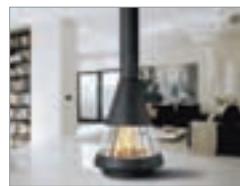
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enq.214

enq.215

Eurostove home heating a spectacular feature



The fabulous Mallorca free-standing, wood burning fireplace from Eurostove is a feature addition to any modern home interior – especially with an open plan layout. Manufactured by the renowned Spanish company Hergom, the Mallorca is one of its latest design innovations, using both steel and glass to create a contemporary masterpiece. This stove has a 360° glass surface so it becomes a focal point for any position in the living area and is perfect if centrally positioned or located in a strategic position between two living areas like a kitchen leading into a dining area. The sliding glass is smoothly opened by rotating the fireplace base.

01934 750 500 www.eurostove.co.uk

enq.211

Mitsubishi Electric's pioneering VRF system



Mitsubishi Electric has announced the ultimate in commercial heating and cooling for UK businesses with the launch of the City Multi YLM VRF (Variable Refrigerant Flow) range of air conditioners. The R410A system includes a unique flat tube aluminium micro-channel heat exchanger which is a pivotal step change in providing more effective and efficient heat transfer. YLM has been designed for seasonal efficiency from day one and in addition to the use of aluminium, includes selectable increased and automated evaporating temperature control, optimised design of refrigerant circuit and components, and the ability to provide heat during defrost.

01707 282880 www.mitsubishielectric.co.uk

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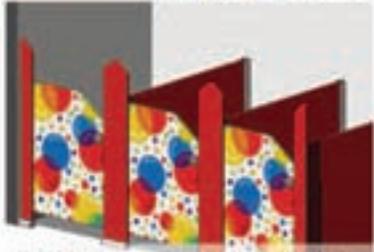
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Signbox inspires glass and light at Algomi



Architectural signs specialist Signbox has collaborated with designer Resonate Interiors to introduce a fresh and contemporary design at the new London headquarters of information solutions provider Algomi. Based in America Square in London, the new office is an open space situated on the twelfth floor. Algomi wanted a modern environment that would inspire employees and visitors alike. Responding to this brief, Resonate Interiors developed a design concept that revolved around the colour scheme of the brand – a simple yet attractive blend of black, white and turquoise – which would inject an understated element of luxury and style.

01784 438688 www.signbox.co.uk

enq.217

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enq.218



The landscape of the washroom is changing

Washwall by Grant Westfield provides a complete solution for the vanity area, including the supporting structure. The new and unique system eliminates the need to specify and fit sanitaryware, brassware, mirrors, wall panel systems and electrics individually, and replaces it with one modular vanity system which integrates all of these elements. Every detail has been considered in the design of washwall to ensure maximum efficiency in installation and operation, simple but discreet access to services and consumables via side-hinged lockable mirror doors, and a streamlined experience for the user. Not only does washwall provide a wide array of attractive vanity solutions, it is also an extremely economic system saving up to 75 per cent on installation time, and between 60-70 per cent on water and energy consumption. Washwall offers a selection of basin formats, taps and drying options, providing over 100 standard configurations, targeting a wide range of applications. To find the washwall most suited to your project, and for prices, please visit www.grantwestfield.co.uk/mywashwall

enq.219

Amwell Systems supplies Aberystwyth University

Aberystwyth University was established in 1872 and is now a thriving hub of activity with a student body of nearly 12,000 and a teaching staff of 900.

The university has worked hard to gain multiple achievements including the accolade of being the fourth best place to study teaching and learning, the fifth best place in the world for student satisfaction and is also voted the safest place in the UK to be a student.

These are just some of the things that make Aberystwyth University great, and so when Amwell were chosen to provide new university washrooms at the Llanbadarn Centre, they were delighted to be part of something so special.

The university wanted to ensure that its establishment is reflected in the best light possible and a daily facility such as the washroom and changing areas are a big part of this. The washroom cubicles needed to be strong and long lasting but also needed to look smart and reflect the modern



aspirations of its thriving student body.

With this in mind Splash toilet cubicles and solid surface vanity units were chosen. Warm oak solid grade laminate and Thunder solid surface not only look cool, stylish and contemporary but they are extremely hard wearing and easy to maintain; universities are busy places and with a potential traffic volume of 2,500 Aberystwyth needed something to stand the test of time.

A quality finish is not only determined by a quality product but also a quality installation. Real Contract Services did a fantastic job installing Amwell's Splash cubicles, duct panels and vanity units and were a thoroughly professional, reliable and skilled company to work with. Managing Director Alan Britten had this to say about his experience with Amwell: "We have been working with Amwell now for nearly three years with some outstanding results. The Amwell product range is excellent, backed up by customer service of the highest standard."

Contact Amwell Systems on 01763 276210 or visit www.amwell-systems.com

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OPHARDT hygiene has been developing, manufacturing and selling dispensing systems and complete hygiene solutions for more than 50 years. The product range includes 'classic' soap dispensers, paper towel dispensers and waste bins, as well as high-tech monitoring systems for the improvement of hand hygiene behaviour in clinics and hospitals. Since 1991, SanTRAL® has been the high quality one-stop solution for durable washroom equipment. A host of smart design details distinguish SanTRAL® from the competition: An ultra-strong housing, exchangeable pumps for liquid soap, foam and disinfectant, a vandalism secure trick lock and a durable Anti-Fingerprint-Coating (AFP) that sustainably eases cleaning.

01332 297 666 www.ophardt.com

enq.223

Lakes Bathrooms launches 10mm shower screens



Shower enclosure specialist Lakes Bathrooms has launched two new 10mm designs as part of its runaway hit, the Coastline Collection. The most popular designs in its walk-in range, the Cannes and Nice, are now available in original 8mm and heavier thickness 10mm glass. As with the whole of the Coastline Collection, the look for the new 10mm designs is confident, sleek, minimalist and contemporary. The profiles are silicon-free to support the clean lines and Lakes Bathrooms' stay clean coating, AllClear®, is applied as standard to both sides of the glass.

Cannes is a simple screen that comes in five sizes, from 750 to 1,200mm wide, plus an optional side panel from 700mm to 1,000mm wide. Nice spans from 900mm to 1,200mm, with a bypass panel of 200mm to 320mm.

Managing Director Robin Craddock said: "We know that buyers expect top quality. We aim to deliver not only luxury, designer style and quality, but at an affordable price."

The 2m high screens are designed to fit with low profile tray mounting or in a wet room environment and work in alcove, corner or straight wall-mounted situations. Retail prices for the 10mm walk-in styles in the Coastline Collection start from £349 plus VAT.

enq.224

enq.225

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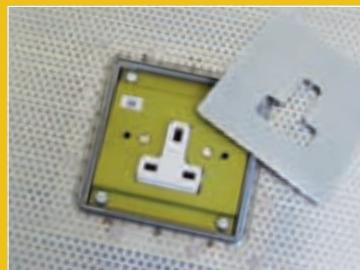
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Consumers drive evolution in wiring accessories

The importance of intuitive and custom design for wiring accessories.
By Jason Ng, marketing communications specialist at MK Electric

Before a small selection of consumer brands – most famously Apple led by its late founder Steve Jobs and chief designer Sir Jonathan Ives – turned the notion completely on its head, it was once accepted wisdom that function would always trump form when consumers were faced with choosing between competing technology products.

Today, despite their transformative effect on the intersection of design and technology, manufacturers charged with mass producing consumer-facing technology could be forgiven for cursing Apple, Ives and Jobs. Why? Because the success of the company's products – the iPod, iPhone and iPad – has completely and irreversibly reshaped our expectations of technology.

Take headphones as an example. Jump on a bus or train in an international city like New York, London or Hong Kong and you'll notice that headphones are no longer just a device for listening to music. Today, they are fashion accessories, labels, brands; available in a rainbow of different colours, complete with funky designs on the earphones.

Another example of the intersection of design and technology is Motorola Mobility's Moto X, the first-ever smartphone to incorporate real bamboo into the body and featuring natural finishes and distinct grains. Styling 'functional' products with unconventional types of materials is a strong movement in design today.

This trend has had a transformational impact on the electrical industry too. For years, electric sockets and light switches were just an accepted compromise in a consumer's otherwise perfect bathroom, kitchen, lounge or hotel room. Wiring accessories have been the anomaly for too long. In the worst case, they are an eyesore that detract from the overall impact of a space. In the best case, they are designed to blend in and look as inoffensive as possible. The democratisation of design has put paid to that cosy little compromise.

As electrical manufacturers start to raise their game – offering a wide selection of customised finishes matching seasonal trends – architects are running out of reasons to accept that wiring accessories are an inevitable eye sore to be hidden away, covered up or concealed.

Architects everywhere invest a significant amount of time and energy creating a space that perfectly matches their client's vision. A sleek and stylish minimalist space or imposing function room; every detail is obsessed over, as they instinctively understand that the finished article is the result of a thousand



small, carefully made decisions.

With the latest innovation in fashionable, customisable electric sockets and light switches, architects are presented with another big opportunity to bring their grand design to life – think sockets made from oak or switches made from glass. It is a new and emerging way of ensuring a building's interior is perfectly balanced.

Consumers are also coming to expect wiring accessories that contain smart technology while looking chic and fitting into a room's overall look and feel. One of the most widely adopted technological innovations in recent years has been the touch user interface, appearing first in smartphones and then spreading to tablets and upmarket laptops.

The technology has been a hit with Generation Y in particular. Market research into young consumers aged 18-34, a key sector in predicting technology trends, revealed that 97 per cent found touch technology convenient, while 96 per cent said it made their life easier and 9 out of 10 agreed it saves them time. The lesson is clear; millennials expect touch functionality.

In order to stay ahead of customer demands, architects must keep up with the changing trends in the wiring accessories industry, and concentrate on incorporating light switches and electric sockets into their projects that use the same type of interface and design that would be as familiar as the phone in a customer's pocket or the tablet in their bag.

As with any change in the status quo, there will be winners and losers – and the winners will be those that stay ahead of consumer behaviour. As the democratisation of design marches on, your clients will expect nothing less.

'With the latest innovation in fashionable, customisable electric sockets and light switches, architects are presented with another big opportunity to bring their grand design to life'

enq.602



Vicaima make an entrance with first European Peninsula Hotel

Interior door specialist Vicaima was selected to provide joinery solutions for the Peninsula Paris Hotel, which is the first hotel of the HSH Group (Hong Kong and Shanghai Hotels) in Europe. Exclusively designed for this project, the brief included doors, frames, skirting boards, panels and technical shafts, with tailor made detailing. The luxurious Peninsula Paris Hotel has 200 rooms and 34 suites, and was opened in August. Built close to the Arc de Triomphe, this important 19th century building has been given a meticulous renovation, blending old world charm with modern innovation to outstanding effect. In order to exceed the expectations of this hotel, Vicaima products were subjected to audits and monitoring of the project, which was carried out through constant inspections, both during production and during product installation.

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enq.229


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Cost efficient lighting control system



Scolmore Group's new FLOW Lighting Management System is one of the most cost-efficient lighting control systems currently available. The comprehensive range of new and existing FLOW products is designed to help electricians create more complex lighting installations quickly, easily and safely. Unique to this system is the switching configuration capability, which provides complete flexibility and allows quick connection, configuration and re-configuration of circuits using a simple 'plug and play' concept. Built-in selectable configurations will save significant time in the planning and fitting stages of a project, leading to reduced labour requirements and cost savings.

01827 63454 www.scolmore.com

enq.230

Lighting up the King's Road with KNX

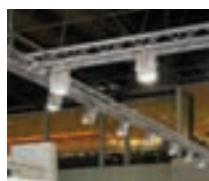


The prestigious Sloane Stanley Estate owns and manages hundreds of properties. It is proactive in its approach and always puts the needs of its tenants and residents first. This has been underlined in a lighting project for a parade of retail outlets at 300-348 King's Road where KNX lighting control technology has been used as the backbone of a highly innovative facade lighting scheme. To support a number of high end retailers based in the parade, the estate wanted to use a lighting scheme to attract potential customers to an under appreciated part. A combination of low energy, individually controllable, RGB multi-coloured light sources can be configured into a variety of eye-catching lighting scenes.

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The sensuality of the surface

RENOLIT launch four popular selling solid colours with a tactile linear wood structure emboss, Veralinga, as the trend towards painted wood continues to grow. All four products have been added to the RENOLIT stock range. The desire is always for greater detail, more realistic designs, more brilliant colours and a more authentic surface. Increasingly the surface has become as important as the colour or design itself to the overall finished style, and these textures enhance the overall finished effect by adding style, design and feeling. Modern hardwoods need the right partner to be able to reveal their full effect while solid colours with a strong textured surface serve as the stage for the latest furniture trend and have the appearance of painted solid wood. The extraordinarily natural look and authentic feel of the linear and deeply structured Veralinga will really impress.

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enq.236



Virgin banking on Tarkett

It's strictly Tarkett for a new Virgin Money Lounge that comes complete with dance floor. Rather than having the look and feel of a traditional bank, the new Virgin Money Store in Glasgow has opted for a concept centred on home and leisure. Using artwork supplied via Allen International, Tarkett's floortcraft design team created the dance floor complete with the Virgin Money logo. At 4m in diameter, the intricate and highly detailed design uses contrasting shades of Tarkett's Luxury Vinyl Tile iD Inspiration 70 flooring in light oak and dark walnut. The design was specified by Emma Hunter, senior designer at Spacelab. Instead of being printed, each piece of the design is individually cut using a precision sonic blade that oscillates at 20,000 cycles per second. The pieces are then assembled onto a solid vinyl core like a jigsaw puzzle, before having a thick layer of transparent PVC added onto the top.

01622 854040 www.tarkett.co.uk

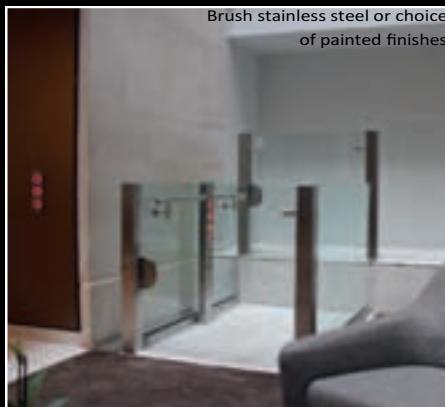
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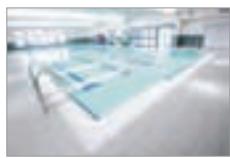
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Mapei's surface build-up at leisure centre



A high performance 'single build-up' Mapei surface system has been installed at West Bromwich's new state-of-the-art leisure centre. Designed and built by Places for People Leisure, the new centre for Sandwell Council includes a 25m pool, learner pool, sports hall fitness suite, dance studios, adventure play area and cafe. Throughout the extensive project, Mapei systems were specified from the substrate to the finishing materials, in order to provide a warrantable system build-up, with Mapei's Technical Department assisting throughout. The total application included 800 sq m of concrete floor substrate and 2,200 sq m of tile backer board and rendered walls.

0121 508 6970 www.mapei.co.uk

enq.238

Quality driven by Remmers



Established in 2004 and formally known as Blackhorse Car Sales, Lex Autolease Car Select in Oldbury has over 500 cars displayed in their executive used car showroom. The existing old liquid polymer screed floor surfaces were badly cracked and damaged and needed a refreshing upgrade to a high gloss, smooth finish to better withstand the frequent and abrasive movements of the cars. Capeland Industrial Flooring took on the challenge, which involved levelling and finishing the existing flooring with a slightly flexible floor topping that complemented the high end motor car sales. **Remmers Epoxyflex PH SL** was chosen for its ability to provide additional protection from reflective cracking.

0845 373 0103 www.remmers.co.uk

enq.239

External platform lift – A3000

An extensive two year restoration programme is underway to restore and develop the Lion Salt Works site in Marston, to become a heritage visitor attraction centre. The work being undertaken is to restore the original salt works site to become a safe environment for visitors to view how the salt works has operated through time.

The aim of the restoration work is to retain the appearance of a working Victorian salt works, while maintaining a safe and accessible environment for visitors of all abilities. Three A3000 Hydraulic Platform Lifts were installed in three separate locations around the salt works site. The fact the A3000 is manufactured from stainless steel, which is then powder coated, made the A3000 a better choice for the salt works than other platform lifts manufactured from standard mild steel.

The first installation was an internal location in one of the pan houses. The pan houses are lightly constructed timber sheds covering the pans. They date back hundreds of years and had fallen into a state of significant disrepair. The A3000 is easy to



install with minimal disruption so was the perfect choice for installation into an existing building. The requirement was for the lift to accommodate two stops with a travel distance of just over 2m.

As space was not a major issue for this location the full size wheelchair passenger and attendant platform size of 1,100mm wide x 1,400mm long was chosen to give the best possible access to both wheelchair users but also parents with buggies and people with walking frames.

This installation was mirrored in the stove house, which is a slightly more substantial brick building but still an original building of the salt works undergoing restoration. The A3000 Short Rise Vertical Platform Lift incorporates a glazed, full height door at the lower level and a half height gate at the upper level, ensuring that passengers can enjoy a safe, secure and smooth ride.

The third installation at the salt works was to install an A3000 at an external location at the Red Lion Inn, which is to be the main part of the visitor centre, housing displays and also the management offices. The lift was given a smaller platform size, 900mm wide x 1,400mm long, due to existing site restrictions but still giving a good level of access to wheelchair users and those who find taking the stairs to the first floor difficult.

enq.241

Contact Axess4All on
0116 2744040 or visit
www.axess4all.com

Mapei provides line of defence



A Mapei system of flooring products has been specified as part of a redevelopment at IWM London. Part of the Imperial War Museums, the historic museum has been transformed to mark the centenary of the First World War; the design – created by architects Foster + Partners – improves access, circulation, as well as creating new vistas to the park outside. Mapei's high performance cementitious flooring system, Ultratop, was chosen to complement the exhibits and provide a low maintenance floor coupled with resistance to pedestrian traffic. The system provides an anthracite-toned abrasion-resistant surface, ideally suited to the heavy traffic environments.

0121 508 6970 www.mapei.co.uk

enq.242

A gem of an installation



Warrior doors were commissioned to design, manufacture and install a new high security doorset for Tulja jewellers to replace their existing entrance. The client specifically wanted an interlocking system featuring two sliding doors, which would be both convenient to use and provide a higher level of security and protection for the premises and staff. Warrior doors chose FAAC's A140 sliding door operator due to its high performance capability. The doors are heavy because they are manufactured in stainless steel with African cedar hardwood inserts and 19mm ballistic resistant glass, plus there was an additional requirement to make the opening wider and higher than standard.

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enq.247

Fire safety & legal responsibilities



Tom Welland, Conformance & Regulatory Affairs manager at Fireco Ltd discusses fire safety and legal responsibilities for architects



If you are an architect preparing the design for a new building or a retrofit, having an appreciation for and working knowledge of the latest fire safety legislation will ensure compliance and ultimately save lives.

The latest government statistics show a 10 per cent increase in fire incidents in England, with 170,000 incidents recorded in 2013-14, 275 of which resulted in fatalities. Of the recorded fires 47,500 were in buildings and 31,200 in residential dwellings.

Ensuring that all buildings meet the latest regulations in terms of fire safety and specifying adequate fire safety products and solutions should therefore be of paramount importance for architects.

Regulation and legal responsibilities

The legal requirements for fire safety will depend on whether the building is being constructed in accordance with standard government building regulations or to British Standard BS9999, which offers a 'barter' option, giving greater flexibility to the standard regulations.

The government standard Building Regulations 2010, Document B, describes the fire safety regulations for all buildings in England.

For dwellings considered to be houses 'in multiple occupation', it is important to recognise that you will have additional responsibilities under the Housing Act 2004.

Once the building is occupied, the Regulatory Reform (Fire Safety) Order 2005 comes into effect, which was designed to put an end to prescriptive fire safety and to hand control over to the 'Responsible Person'; deemed to be the owner, employer or occupier. The Fire Safety Order applies to all non-domestic premises in England and Wales, including the common parts of blocks of flats and houses in multiple occupation (HMOs).

The Equality Act replaced the Disability Discrimination Act 1995 and 2005 (DDA) on 1 October 2010. Where an employer does not make provision for the safe evacuation of disabled people from its premises, this may be viewed as discrimination.

Architects should therefore recommend fire safety systems and/or products to make certain that disabled and hard of

The latest government statistics show a 10 per cent increase in fire incidents in England, with 170,000 incidents recorded in 2013-14, 275 of which resulted in fatalities'

Continued overleaf...

hearing building occupants are made aware of a fire alarm sounding and are able to evacuate the establishment quickly and safely. It is often a combination of equipment, as beacons for example, can't be relied upon in bright light.

High-risk buildings

Multi-occupied properties which have three or more storeys hold the greatest fire risk, according to studies. This includes hostels, managed or sheltered accommodation, houses that are converted into flats, purpose built multi-storey buildings and flats above shops.

This higher risk is related to the high occupancy factor, due to multiple ignition sources (cookers, heaters, fires, smoking), potential for vulnerable occupants and lack of fire prevention measures. Although only about two-thirds of fires occur in dwellings, these account for over 80 per cent of both fatal and non-fatal casualties.

Fire doors

According to government building regulations, the majority of fire doors should be fitted with a self-closing device. Fire doors are installed to protect the safety of building occupants by preventing the dangerous spread of smoke and fire, provided they are closed. In this way they make sure people have a protected route to get out of the building, and they protect the

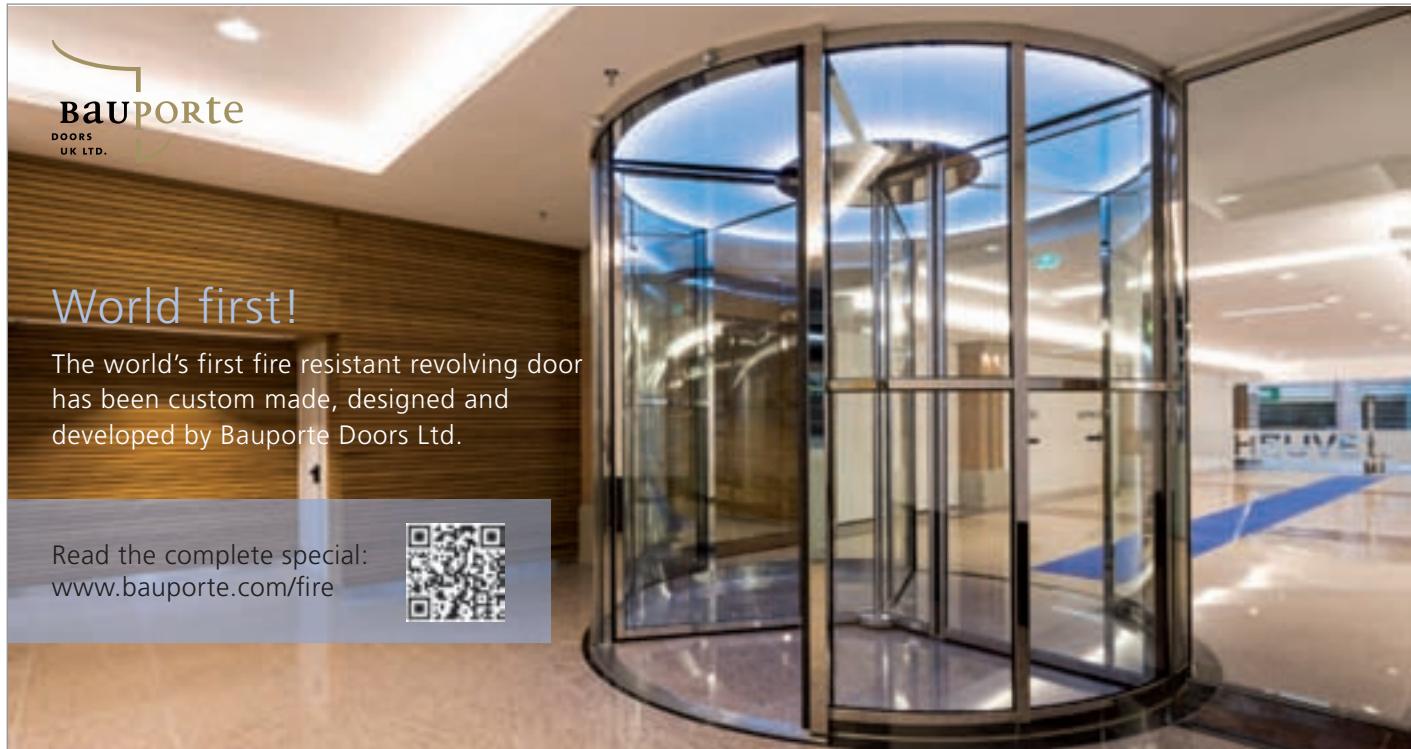
'This higher risk is related to the high occupancy factor, due to multiple ignition sources (cookers, heaters, fires, smoking), potential for vulnerable occupants and lack of fire prevention measures. Although only about two-thirds of fires occur in dwellings, these account for over 80 per cent of both fatal and non-fatal casualties'

building and its contents against the spread of damage.

Research carried out by Fireco showed that 64 per cent of premises visited by the fire service found fire doors wedged open, a practice that can prove devastating as the case of the Rosepark Nursing Home in South Lanarkshire showed. After years of research and test fires, it has been proven how effective fire doors with self closers would have been in this case.

Architects should also be aware that all new care home buildings are required to have free swing door closers attached to all bedroom doors.

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Promat set to repeat Fire Day success



Promat UK will host its fourth Fire Day at Ascot Race Course, where construction professionals will be given the opportunity to gather and discuss the fire safety issues faced by the industry. The event 'Making your project our business', will take place on Wednesday 12 November where a number of prominent figures from both the construction and fire safety industries will give presentations on topics including steel protection, the use of glass in architectural design, and the role of social media in the construction market. It will give attendees the chance to assess the current state of the market, examine areas for improvement and find ways to progress.

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Schueco benefit from industry upturn



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Decseal provides police protection in Leeds



A new £34 million car park built as part of West Yorkshire Police's new divisional headquarters in Leeds has been protected using Stirling Lloyd's dual function Decseal waterproofing and anti-skid system. Some 4,182 sq m of the advanced resin-based Decseal system has been applied throughout the decks of the two-storey car park, which, with almost 400 spaces, provides parking for the force's operational vehicles as well as for staff and visitors. Proven in numerous car park applications, the fully reinforced Decseal system incorporates a tough, waterproofing membrane with no vulnerable joints.

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Will SuDS legislation be put into place?

With the government now planning to hold a consultation to discuss where to go with SuDS, Andrew Gill, marketing manager of Brett Landscaping, wonders if and when any actual legislation will finally be put into place

To admit to feeling frustrated at the lack of progress regarding any 'official' implementation of Sustainable Drainage Systems (SuDS) legislation is something of an understatement. This follows the September announcement by the government of a new consultation, aimed at discussing the future of SuDS, which, at face value, sounded very pro-active.

In reality, this consultation actually sounded the death knell of the 2010 Flood and Water Management Act and should be seen as nothing more than the latest in a series of governmental U-turns and delays. These have, over recent years, significantly hampered architects and specifiers in addressing the important issue of sustainable drainage with any degree of certainty.

Why say this? Well, let's consider the timeline starting in 2007 when the Pitt Review was published. This presented the case for change advocating the enforcement of SuDS following the extensive flooding of 2007. Yet despite its production and publication, nothing was ever finalised. Then, in 2010, further guidance on the implementation of SuDS was presented, this time via the Flood and Water Management Act. Yet again, nothing was enforced by the government as the National Standards required to enable the legislation were never produced – despite frequent flooding events to act as reminders over the intervening years.

Even this year, in a recently released progress report, the Committee on Climate Change (CCC) highlighted concerns surrounding the lack of SuDS in the UK. Yet disappointingly, the actions required to address the CCC's findings have far from been enforced. In fact, the publication of an implementation directive, originally scheduled to take place in September, has now actually been shelved, owing to concerns that housebuilding activity is on the decline.

So what's going on? Why all this delay? It's indisputable that, in this country, we have flooding issues. When rain falls, our ageing infrastructure and increasingly developed landscape just can't absorb the overflow. While it appears the government is fully aware of this, its behaviour is too tentative in doing something solid about it. Is this because, despite advice and concerns shared by authoritative bodies who've researched the issue, the government is unsure of what to do? It looks as though the buck is being passed to local authority planning departments – asking them to consider SuDS when assessing development



applications – but without providing any clear guidelines as to what is required.

It could therefore be understood why confidence is somewhat lacking when it comes to the announced consultation on SuDS, for fear that it will be nothing more than another costly exercise which will result in little, if any, further progress.

Meanwhile the ever-increasing pressure placed on our infrastructure and environment continues. Sadly, ongoing flood events resulting from climate change don't afford us the luxury of being able to hang around indefinitely while the government tries to make its mind up.

In crude terms the statistics show that in a greenfield site 95 per cent of water is absorbed into the ground; this falls to only 5 per cent absorption within an urban development. Every year, an area the size of 200 football pitches is lost to impermeable paving in London alone, and it's not rivers breaking their banks that cause the majority of this county's flooding, but infrastructure being overwhelmed and unable to deal with the excess water run-off.

If we couple these statistics with government targets for new homebuilding of up to 300,000 units per year by 2020 – each

'Every year, an area the size of 200 football pitches is lost to impermeable paving in London alone, and it's not rivers breaking their banks that cause the majority of this county's flooding'

Continued overleaf...



of which will take up an average of 250 sq m of land – how will the urban environment cope without official SuDS guidelines and heavy rainfall events becoming more frequent?

Architects, landscape designers, master planners and the more

proactive local authorities, should move forwards regardless in their implementation of ‘best practice’ and make a difference country-wide by incorporating SuDS-friendly features as standard.

Brave as it may sound, there’s often very little physical alteration that needs to be made. Materials such as permeable paving can make all the difference in meeting SuDS requirements, yet still present scope for the resulting hard-landscaping solutions to be aesthetically pleasing and an asset to developments.

This ‘designed in’ option replicates the run-off characteristics of a greenfield site and, interestingly, improves the quality of water run-off for surrounding biodiversity by trapping up to 95 per cent of water-borne pollutants on-site.

Think what a difference SuDS could make to existing urban developments – not only new. After all, gravity ensures that what affects your new-build neighbour will inevitably flow down the hill towards where you live.

Effective implementation of SuDS can therefore benefit our highways, wildlife and the country’s infrastructure in general, saving money, damage and loss, together with untold long-term disruption.

So as we head into winter, still waiting for the government to get its checklist together, despite having watched the country suffer again from the effect of flooding in 2014, let’s hope those with the power to make a change through the design process do just that and improve future conditions for all of us.

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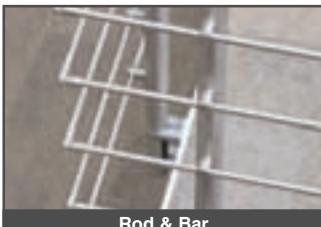
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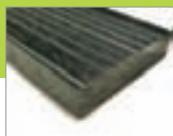
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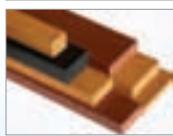
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Hauraton systems installed at Whiteley Shopping Centre

The Whiteley Shopping Centre in Fareham, Hampshire, has over 29,700 sq m of retail and leisure space. Planned around a town square, it incorporates many landscaped areas and numerous pieces of public art. The £64 million shopping centre was jointly developed and is now owned by British Land Company PLC and Universities Superannuation Scheme.

With the extensive use of natural materials, an effective drainage scheme and the incorporation of many energy efficient and sustainable features, the Whiteley Shopping Centre has achieved a BREEAM Excellent rating.

Conceived by architects Corstorphine+ Wright as an open townscape, the shopping centre was built on levelled land that originally sloped down towards an existing car park and fuel station. With

extensive paved, concreted, resin bonded aggregate and asphalted areas, surface water drainage was an important consideration in the general landscaping of the site.

Aesthetic demands meant the surface water drainage for the paved square and its radiating pedestrian walkways had to be as unobtrusive as possible yet fully meet the drainage requirement. This was achieved by installing over 700m of Hauraton RECYFIX® STANDARD 100 slotted channels fitted with symmetrical stainless steel covers. Once installed, this system provides an unobtrusive, narrow line of slots in the pavement surface.

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