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December 2013

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Park Tower Hotel bar and
lounge, Knightsbridge

Industrial buildings:
Recycling and Energy Recovery
Facility (RERF), Leeds

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19 Low cost and big aims for iconic Knightsbridge hotel

How do you relaunch a major high end hotel in central London at minimal cost? That was the challenge facing the team charged with helping Sheraton reposition the five-star Park Tower Hotel in Knightsbridge, central London, as Steve Menary reports

26 A landmark Leeds can be proud of

It may be a rubbish idea – literally – but awful puns aside, the goal of the innovative and striking Recycling and Energy Recovery Facility (RERF) in Leeds is impressive: remove recyclable waste from black bins to boost the recycling rate and recover an amount of energy from what's left over to power 20,000 homes. Jess Unwin reports

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Cover image: Jubilee Wharf courtesy of the Structural Timber Association See page 32 for details

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CHARITY AUCTION

10x10 Drawing the City London raises £90,000 for charity Article 25

Article 25 is pleased to announce that its 10x10 Drawing the City London art auction raised £90,000. Artwork created by world-renowned architects, designers and artists went under the hammer at the special live auction, which took place at The Crossing, 1 Granary Square, London on Thursday 28 November.

All participants created unique pieces of art, capturing the extraordinary, the unnoticed and the ever-changing City of London. This year focused on areas such as Hackney, Shoreditch and the Barbican.

Maxwell Hutchinson, founder of Article 25, broadcaster, architect and former past president of the Royal Institute of British Architects says: "This year's auction was a wonderful celebration of all the visual representations of the built environment from drawing and photography to painting and sculpture. The auction is in its third year and once again the event would not have been a success without the support from sponsors and each participant taking time to create artwork for the benefit of those in need of sustainable shelter."

Robin Cross, Article 25's CEO says: "Auction funds from 10x10 will be

absolutely crucial in enabling us to start up much needed new projects this year. To us, the £90,000 raised is far more than just money, it means being able to work with vulnerable communities for an additional 20 months, bringing the skills and knowledge of our architects, engineers and construction professionals to places experiencing extreme poverty, where they are needed the most."

Article 25 will be using all proceeds from the sale of the artwork to design and build best practice Street Children's Centres, helping to get thousands of Africa's most vulnerable children off the streets permanently and reconnecting them with their families or foster families.

These Street Children's Centres will be designed together with the children so that they genuinely meet their needs and create the best possible environment for rehabilitation. The Centres will provide them with places to sleep, medical support, counselling and help in re-engaging with education or training. Article 25 plans to launch the first of these innovative Centres in Kenya and Ghana, producing a prototype design that can be replicated throughout the continent.



Four in ten UK workers in the architecture sector search for a new job

British businesses in the architecture, engineering and building sectors need to invest in their people or face a potential exodus of staff, as a combination of work dissatisfaction and more confidence in the job market means that four in ten (43 per cent) of workers are considering moving jobs in the next year. Research conducted by **Investors in People (IIP)** reveals that 46 per cent of people working in the sector feel that the job market has improved in the last year – the highest of all the sectors surveyed.

With a fifth (20 per cent) of architecture, engineering and building workers describing themselves as unhappy in their jobs and the economy creating more job opportunities, IIP is calling on the sector to take action now to avoid losing talented staff, and having a costly bill to replace them.

As the economy recovers, the figures suggest that many workers in the sector have been 'laying low' in jobs they are not happy with due to a fear of job insecurity. About 26 per cent of workers in the sector say that if the economic situation had been better a year ago, they would have looked to move job sooner.

The survey showed that workers in the architecture, engineering and building sectors are looking to be valued, not just to have higher wages, with 81 per cent stating that greater job satisfaction is their main incentive for moving, ahead of pay (50 per cent). A third (33 per cent) said that bad management is a leading cause of their unhappiness at work, and 25 per cent of employees feel that their skills and talent would be better valued elsewhere.

SLEEP 2013

What a Show!

Sleep records best year yet – and announces dates for 2014

Sleep 2013 ended on a high after two full days packed with ideas and inspiration. Over 3,600 international industry professionals attended, a 12 per cent increase over last year and a record for Europe's favourite and longest running hotel architecture, design and development event.

The many new features and formats introduced at Sleep this year generated a palpable buzz of excitement among the international design community leading up to and during the show. Visitors were drawn to the event for its forward-thinking conference programme featuring the brightest luminaries in the business and cutting-edge exhibition showcasing the latest innovations in hotel design.

A big change for Sleep in 2013 was to make the conference an inclusive event accessible to all pre-registered visitors, thereby opening up the discussions to a wider, international audience keen to hear the views of industry icons such as Ian Schrager and Ken Shuttleworth.

Most sessions were fully subscribed and topics ranged from fact-driven analysis of the business to the more esoteric 'imagine...' discussions.

Audiences were given an opportunity to engage in the discussions during Q+A's at the end of each session and the conference was rounded off by 'Question Time!' – a chance for the audience to quiz a panel of industry experts.

Alongside the conference, this year's exhibition featured more than 130 manufacturers and suppliers showcasing the finest products in hotel design, a third of who were new to Sleep.

The niche focus of the event means that exhibitors are carefully selected, and visitors were highly appreciative of the unique edge that this gives.

Sleep headline sponsor GROHE had a significant presence across the



entire event, hosting the VIP lounge as well as launching its latest design-led bathroom technology.

A highlight of the exhibition was the Newcomers Gallery located on the ground floor, which introduced a select group of innovative product designers who were new to the hospitality market.

The Sleep Concept Hotel room sets were a triumph of creativity and practicality with the contenders having just 24 hours to realise their concepts before revealing them to the judges.

The winning room set featured inspiration from Ken Adams' set design for Stanley Kubrick's *Dr Strangelove*, including surprise elements such as interstellar fractal-inspired artwork, in response to a brief that captured the widespread interest in, and nostalgia for, the 1960s.

Each of the Sleep Concept Hotel designers – Cullinan Interior/Infinite Architects, Hickson Design Partnership, Kelly Hoppen Interiors, Purpose Design and Squared Interiors – presented their concepts to judges Andrew Baker of Starwood Hotels & Resorts, Catherine Ince, Barbican Art Gallery curator, and Conrad Smith of ReardonSmith Architects. The room sets were extremely popular with visitors.

The Sleep Concept Hotel Bar, the destination within a destination, was the place to catch up, mix and mingle with contacts old and new. Nous Design had taken on the creative challenge this year, and with Laufen and contractors Willmott Dixon, conceived the bar as a serene oasis in the mêlée of the show. The bar itself was a dramatic sculptural form crafted from re-purposed shower trays manufactured by Laufen and will go on to tour several major European design shows next year.

The European Hotel Design Awards reveals the winners

Europe's longest-running and most prestigious architecture and design awards for the hospitality sector, the **European Hotel Design Awards**, culminated in an evening of glamour, anticipation and celebration on the 19 November. In the largest European occasion of its kind, some 900 guests from across the Continent gathered together for the reception and dinner, followed by the awards ceremony presented by broadcaster, Lauren Laverne.

And the 2013 winners are...

Architecture of the Year – Conversion and/or Extension of an Existing Hotel Building: Ushuaia Beach Hotel, Ibiza, designed by Estudio Vila 13

Architecture of the Year – Conversion of an Existing Non-Hotel Building to Hotel Use: Speicher 7 in Mannheim, designed by Schmucker und Partner

Architecture of the Year – Newbuild Hotel: Bulgari Hotel & Residences, London designed by Antonio Citterio, Patricia Veil & Partners and Squire & Partners

Interior Design of the Year – Lobby, Lounge & Public Areas: The Alpina Gstaad; designer – The Gallery HBA London

Interior Design of the Year – Café or All-Day Dining: 25hours Hotel, Zurich West; designer – Alfredo Häberli Design Development

Interior Design of the Year – Restaurant: Plum and Spilt Milk, the Great Northern Hotel, London; designed by Archer Humphries Architects

Interior Design of the Year – Bar: Cuckoo's Nest at Radisson Blu Riverside, Gothenburg; designer – Stylt Trampoli AB

Interior Design of the Year – Bedrooms & Bathrooms: The Alpina Gstaad; designer – The Gallery HBA London

Interior Design of the Year – Suite: The Oslo Suite at The Thief in Oslo; designer – Anemone Wille Våge

Interior Design of the Year – Spa, Health & Leisure Facilities: Castell dels Hams, Mallorca; designed by A2arquitectos

The European Hotel Design of the Year: The Alpina Gstaad; designers – The Gallery HBA London

Tomorrow's Hotel: KOI by MM Planners

The ReardonSmith Student Award: James Young, Canterbury School of Architecture

The Outstanding Contribution Award: Ian Schrager

The big idea is back: build big...or is it build small?

By Paul Graham, MD of cost-effective, bespoke project lead provider Planning Pipe (www.planningpipe.co.uk)



Over half a million new homes have been submitted for planning approval so far in 2013. The fact that only 130,000 new homes will actually be built in the year remains the vocal frustration of politicians, developers and would-be homeowners. Signs that big ideas might be back in vogue came with Labour's Shadow Housing Minister's recent proposal for five new towns to be built "within the first five years of a new Labour government". Rekindling the spirit of Britain's post-war housing boom, Emma Reynolds called for a return to quality with "the garden city model" to help solve the problem of housing supply.

To many, the idea of Letchworth and Welwyn Garden City (built in the early 1900s) as model new towns may cause slightly less anxiety than the 1960s examples of Milton Keynes or Washington New Town. Nevertheless the idea plays well into an ever-growing consensus that the housing shortage is critical enough that something (specific, deliverable and properly funded) must be done!

The experience of the 1990s – when housing building volumes remained

relatively impervious to unprecedented increases in house prices – should have convinced politicians that tinkering at the edges of planning or mortgage reforms would make little difference. The big idea of new towns may be back – but in fact it hasn't been away very long.

Remember eco-towns? No? Gordon Brown wanted 10 eco-towns. Four schemes were given the go-ahead in 2009, aimed at delivering around 20,000 homes in total. Fast forward five years and of those four, Rackheath in Norfolk has made no apparent progress; St Austell in Cornwall has been revised down to 1,500 homes with a masterplan still yet to be agreed – and Whitehill Borden in Hampshire will see the first outline application for 100 homes submitted in early 2014. Only North West Bicester has seen any significant progress with 394 new approved last year and building started.

The eco-towns of 2009 were the product of a centrally-driven political initiative that ran into the new coalition's emphasis on localism. Eco-towns were allowed to be ground into near-dust by the usual, everyday compromise

of communities, planners, developers and councils. This year around 70 new projects proposing over 1,000 new homes each have been submitted into planning. Unlike HS2, these projects, like Brown's eco-towns before them, are unlikely to have the scale to warrant a "national importance" trump card that can break through the existing logjam. They are likely to suffer the same bureaucracy/benefit from the same democratic consultation as every other large housing scheme.

For the coalition, Planning Minister Nick Boles preferred to focus on an equally radical measure – the self-build solution. Those "who cannot afford to buy somewhere to live should be handed plots of state-owned land so they can build homes of their own". The big idea could in fact be small...

Very different proposals but at least the politicians agree on the need for a big idea driven from the centre. We will wait to see which, if any, of these proposals can gain sufficient long-term momentum and cross-party agreement to make a significant contribution to the creeping crisis of UK housing supply.

enq. 601

news bytes

Visit adf-news.blogspot.co.uk and enter the reference number to view more information

Topolski – new
cafe/bar opening in
an art bunker...
Ref: 25779

BIM – Business
enabler or technology
red herring?...
Ref: 19871

New campus voted
'West Midlands'
most sustainable...
Ref: 34608

Annual fees survey
shows average fees
similar to last year but
there's some evidence
that a rise may be
underway right now...
Ref: 98504

RIBA influences
professional
qualifications directive
changes and outlines
principles for future
education reform...
Ref: 11163

European architects start to realise that sustainability is more than just energy efficiency

In 2012 sustainability was mainly seen as energy saving. One year later another aspect of sustainability has gained popularity: sustainability saves money. For more European architects sustainability now goes beyond energy saving. These are some of the conclusions of the Q3 2013 European Architectural Barometer report, a quarterly research among 1,600 architects in eight European countries.

European architects act as a leading indicator for the construction activity. The latest Arch-Vision survey confirms the fact that the understanding of sustainability not only differs from country to country, but it is also changing with time. The results from the measurements Arch-Vision has done in two consecutive years showed changes in the architects' meaning of the term sustainability. While in 2012

they considered it to be related mainly to energy saving, only one year later, more architects have started to see it as standing for money saving, recyclability, low maintenance costs and usage of natural raw materials. Energy saving still remains the main characteristic feature architects associate with sustainability, but the view that it is more than that is gaining ground.

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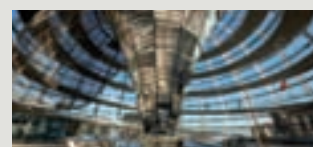
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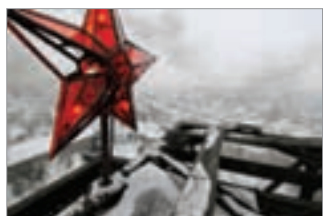
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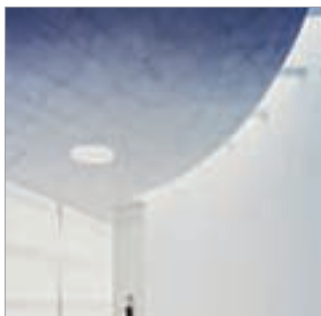
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PHOTOGRAPHY COMPETITION

Stunning photography of the built environment waits for the world to decide the winner



An eerie view from Alcatraz, the use of child labour in India and a symbol of the Soviet Union's past industrial rush are just some of the



photographic stories to reach the final of this year's international Art of Building digital photography competition run by the **Chartered Institute of Building**.

Fifteen shortlisted images fought their way past the scrutiny of this



year's judging panel, which included photography critic and editor Sue Steward, award-winning photographer Matt Wain and Elaine Knutt, editor of *Construction Manager* magazine.

Now that the judges have had their say, the CIOB is inviting everyone to decide which of the finalists should be awarded the prestigious title of 'Art of Building Photographer of the Year' and scoop a cash prize of £3,000.

Voting is free and takes place via www.artofbuilding.org.

"There are absolutely no signs of the competition slowing up in either interest or quality," says CIOB Art of Building Manager Saul Townsend. "There is a real passion for the built environment and it has shone through in the photography entered this year. Now it's up everyone to have their say on who should win."

The contest which celebrates creativity in the construction industry is now in its fourth year.

Voting opens on 9 December and closes on 9 January 2014.

For more details on the competition and to vote, log on to www.artofbuilding.org.



Shortlist

Photos from top left

Room with a view – San Francisco from inside Alcatraz by Ros Conti

Desperate Measures by Kirsten Quist

A star over the old coal mine by Andrey Shapran

Climbing by Bart Brouwer

Inside and out by Margarida Cardoso

Kiss by Zoltan Balogh

Lady in waiting by Linda Wride

Neues Museum 2 by Juergen Schabel

Northern Lights by Andy Howe

Rattan Roof by Chek Poh Wong

Simplicity by Tim Hunt

Six Stairs by Vera Cymbron

Steel Tree by Mukesh Dolia

Stepped up by Ari Yuliarso

Tron by Vladimir Tochanenko

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AWARDS

The RIBA President's Medals Student Awards 2013

Until 29 January 2014, London
www.architecture.com/whatson

CONFERENCES & SEMINARS

Design intent to reality: closing the building performance gap

15 January 2014, Manchester
 16 January 2014, Liverpool
www.architecture.com/whatson

Accessible housing: what makes good practice?

16 January 2014, Gateshead
 21 January 2014, Exeter
www.architecture.com/whatson

Asbestos and other Nasty Surprises

23 January 2014, Birmingham
www.architecture.com/whatson

Growing Communities: Meeting the Housing Challenge

25 February 2014, London
www.buildingcentre.co.uk/events

EXHIBITIONS

Not What, But How

Until 14 December, London
www.aaschool.ac.uk/PUBLIC/WHATSON/exhibitions.php?item=273#p-not-what-but-how-p

Great Estates: How London's landowners shape the city

Until 17 December, London
www.buildingcentre.co.uk/galleries

Arup Associates 50: Projects 1963-2013

Until 20 December, London
www.arupassociates.com/en/news/arup-associates-50/

Elmgreen & Dragset: Tomorrow

Until 2 January 2014, London
www.vam.ac.uk/content/exhibitions/tomorrow-elmgreen-dragset/

RIBA Stirling Prize winners in the Robert Elwall Photographs Collection

Until 10 January 2014, London
www.architecture.com/whatson

Designers in Residence 2013

Until 12 January 2014, London
designmuseum.org/exhibitions

Emerging Architecture

Until 22 January 2014, London
www.architecture.com/whatson

Don't move, improve!

Until 6 February 2014, London
www.newlondonarchitecture.org/exhibitions

Pop Art Design

Until 9 February 2014, London
www.barbican.org.uk/artgallery/event-detail.asp?ID=14797

FESTIVALS

Wondercool

February 2014, Copenhagen
www.wondercoolcopenhagen.com

Clerkenwell Design Week

20 - 22 May 2014, London
clerkenwelldesignweek.com

The International Festival for Business (IFB) 2014

June - July 2014, Liverpool
www.ifb2014.com

SHORT COURSES

Framed Concrete Building with Fine Concrete Surfaces

20 January 2014, London
www.buildingcentre.co.uk/events

Drawing Gymnasium - Winter 2014

3 February 2014, London
www.buildingcentre.co.uk/events

TALKS, LECTURES & DEBATES

Good News From Nowhere: Halls, Buildings, Public Use

17 December, London
www.architecturefoundation.org.uk/programme/2013/good-news-from-nowhere-building-in-the-countryside/halls-buildings-public-use

Accessible housing: what makes good practice?

16 January 2014, Gateshead
www.architecture.com/whatson

Cabe Seminar | Design & Infrastructure

28 January 2014, London
www.eventbrite.co.uk/e/cabe-seminar-design-infrastructure-tickets-9124354189

TOURS

Great British Buildings: RSA, London

20 January 2014, London
www.architecture.com/whatson

TRADE SHOWS

Interiors UK

19 - 22 January 2014, Birmingham
www.interiorsuk.com

Retrofit Roadshows

Date left: 21 January 2014, Exeter/Taunton
 28 January 2014, Southampton
 11 February 2014, Dartford
 18 February 2014, Nottingham
 Spring 2014, Bath/Bristol
 Spring 2014, Glasgow
www.retrofit-roadshow.co.uk

Surface Design Show

4 - 6 February 2014, London
www.surfacedesignshow.com

Housing Expo

11 - 12 February 2014, London
www.housing-expo.co.uk

UK Concrete Show

27 - 28 February 2014, Birmingham
ukcs2014.businesscatalyst.com

kbb Birmingham

2 - 5 March 2014, Birmingham
www.kbb.co.uk

Ecobuild

4 - 6 March 2014, London
www.ecobuild.co.uk

Sustainability Live [including NEMEX, ENERGY RECOVERY and IWEX]

1 - 3 April 2014, Birmingham
www.sustainabilitylive.com

Greenbuild Expo

7 - 8 May 2014, Manchester
www.greenbuildexpo.co.uk

Greenbuild Awards

7 May 2014, Manchester
www.greenbuildawards.co.uk

Design in Mental Health Conference & Exhibition

13 - 14 May 2014, Birmingham
www.designinmentalhealth.com

The Eco Technology Show

26 - 27 June 2014, Brighton
www.ecotechnologyshow.co.uk

RIBA

Celebrating the architecture stars of the future – 2013 RIBA President's Medals winners announced

The winners of the 2013 President's Medals were announced last night at a special event at the Royal Institute of British Architects (RIBA) in central London. The prestigious RIBA President's Medals, which date back to 1836, reward talent and excellence in the study of architecture.

RIBA President Stephen Hodder said of the winners: "Congratulations to Ben, Ness and Tamsin, all deserving recipients of the President's Medal. They overcame intense competition from the best students of architecture around the world and truly shined with their innovative, challenging and

thought-provoking projects.

"2013 has been year of exceptional entries for the RIBA President's Medals which continues to highlight and reward the very best talent from around the world..."

Go to www.presidentmedals.com for the full list of winners.

SHOFFICE (SHED + OFFICE)

American white oak combines function and sculptural design in the form of Shoffice

Shoffice (shed + office) is a garden pavilion containing a small office alongside garden storage space located at the back of a 1950s terraced house in St John's Wood. The project brief was for both a practical office space and a sculptural object that flowed into the garden. The project was a close collaboration between Platform 5 Architects, Morph Structures and the contractor Millimetre.

The finished design is a fully glazed office, which nestles into an extruded American white oak elliptical shell that unfurls to form a small terrace in the lawn. The interior is also lined with American white oak and fitted with a cantilevered desk and storage. The structure is naturally lit by two skylights – one glazed above the desk and another open to the sky outside the office attracting light into the work space.

London based architects Platform 5 took their inspiration from a curled wood shaving. The curved exterior shell was formed in a stressed skin timber structure to keep the weight and foundations minimal and allow the structure to be prefabricated in a workshop and before assembly on site. The exterior fascia was fabricated in slim, steam bent strips to accentuate the spiral form of the leading edge of the building. The



efficient structure achieved good insulation levels while maintaining the elegance of the design intent.

The American white oak cladding was chosen for its warmth, tactile appearance and durability. "Due to the shape of 'Shoffice' we required a cladding material that would work internally and externally on the roof, walls and deck; the oak cladding was able to adapt to all of the different conditions", says Patrick Michell from Platform 5. The exterior open cladding has been left untreated so that it will weather down to a silvery-grey.

The interior is lined with oiled tongue and groove oak boards, bringing out the richness of the wood. Over time the contrast between the interior and exterior will be accentuated.

A slim cantilevered desk was made

using white oak laminated plywood with solid lipping and was crafted to integrate into the interior architecture.

The site presented a number of challenges as the only access was through a small doorway and the modest sized garden had a limited working area. Therefore, the structure was prefabricated in to a kit of parts in a workshop to ensure accuracy, limit time on site and reduce the amount of materials that need to be taken through the house.

American white oak has a creamy coloured sapwood and a light to dark brown heartwood. White oak is mostly straight grained with a medium to coarse texture, with longer rays than red oak, producing a distinctive and attractive grain pattern.

American white oak is widely available and is a popular choice in export markets around the world for many furniture, flooring and joinery manufacturers due to its colour consistency and the high volume of square edged lumber production, and veneer availability. The wood is hard and heavy, with medium bending and crushing strength. It is low in stiffness, but very good in steam bending.

Visit the American Hardwood Export Council (AHEC) website: www.americanhardwood.org

news bytes

Visit adf-news.blogspot.co.uk and enter the reference number to view more information

London 2012
Velodrome: The role of simulation in the design process...
Ref: 86928

Book: The Architecture of Transgression. Guest-edited by Jonathan Mosley and Rachel Sara. Published by Wiley, December 2013. Paperback £24.99...
Ref: 92427

World Design Impact Prize 2013-2014 shortlist announced...
Ref: 83424

RIBA Competition winners announced: Design ideas for housing in the private rental market...
Ref: 91503

cpd focus

continuing professional development

Maintaining and improving professional competence, skills, abilities and knowledge

UNDERSTANDING AND SPECIFYING INVISIBLE SOUND SOLUTIONS



Amina Technologies' RIBA-approved CPD seminar compares the basic principles of conventional sound technology with that of VPT (Vibrational Panel Technology) technology used for Amina's invisible loudspeakers. Consideration is given to the characteristics and benefits of the different technologies before looking in more detail on how to specify an invisible sound solution for end customers illustrated by case studies on both commercial and residential applications.

01480 354390
www.amina.co.uk

enq. 103

DESIGN OPPORTUNITIES IN COMPOSITE RAINSCREEN TECHNOLOGY



RIBA-approved CPD *Design opportunities in composite rainscreen technology* is available to specifiers and construction professionals from global cladding manufacturer Steni. The presentation defines composite materials, specifically fibre reinforced polymers (FRP), and talks specifiers through environmental issues, fixing options, material properties, manufacturing process, and textures, colours and shapes, giving more than a dozen stunning reference projects.

01978 812111
www.steni.com

enq. 107

VETROTECH SAINT GOBAIN CPD



Manufacturer of fire resistant glazing Vetrotech Saint Gobain understands the moral and legal obligation required to ensure the correct specification is met on every project. It introduces a new RIBA approved CPD, a comprehensive overview of the fire glass industry which explains the different types of fire protection, why fire rated glass is required, the different types of fire glass needed and how they work and how to correctly specify fire rated glass.

02476 547 7620
www.vetrotech.com

enq. 104

SPECIFICATION OF FINISHES AND MAINTENANCE PRODUCTS FOR WOODEN FLOORS



Bona offers *Specification of Finishes and Maintenance Products for Wooden Floors*, a CPD covering three main areas. The first is preventative maintenance, which looks at design issues covering the layout of buildings, flooring selection, matting and the long term flooring performance. Secondly a section on specification examines a floor's life costs and explains how to get the right specification to satisfy clients' requirements. Finally a section on maintenance and refurbishment.

01908 525 150
www.bona.com

enq. 108

WOOD CEILINGS: THE BEAUTY AND BENEFITS

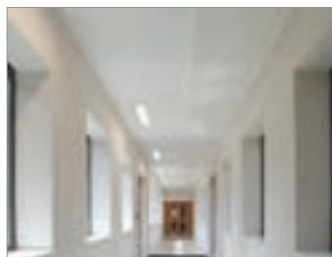


Hunter Douglas has received accreditation from RIBA for a CPD presentation entitled *Wood Ceilings: The Beauty and Benefits*. The presentation is designed to help architects and specifiers gain a clearer understanding of how such a traditional building material translates to contemporary design and architecture. It covers the aesthetic and practical uses for wood and the wide design flexibility available to the specifier.

01543 275 757
www.hunterdouglas.co.uk

enq. 105

WATER-BASED RADIANT HEATING SOLUTIONS



A division of SAS International, HCP, is pleased to announce that it has produced a new RIBA-accredited CPD on *Water-based Radiant Heating Solutions*. The CPD seminar covers the benefits of specifying Radiant Heating systems which meet energy efficiency demands. The presentation also looks at the standards relating to Radiant Heating including their contribution towards BREEAM and LEED compliance.

0118 929 0900
www.sasintgro3up.com

enq. 109

CUTTING EDGE ACOUSTICS



Collecta® continue to establish itself as experts in sound proofing, as its *Cutting Edge Acoustics CPD* receives the stamp of approval from RIBA. The RIBA CPD Assessed Material covers the fundamental characteristics of acoustic Building Regulations Part E and provides guidance on sound proofing all types of new build & refurbishment floors and walls, including Robust detail and Pre Completion Test solutions. The CPD is available to complete online via the RIBA CPD website.

08456 717174
www.collecta.co.uk

enq. 106

HYBRID WIRELESS FIRE DETECTION – THE STANDARDS & TECHNOLOGIES



Hochiki Europe's CPD course *Hybrid Wireless Fire Detection – The Standards & Technologies* provides an overview of what is required when specifying, installing and maintaining hybrid wireless fire detection systems. It has been designed to provide essential information including an overview of relevant sections from BS 5839 Part 1 and EN 54 Part 25 standards, a guide to when to use hybrid wireless, the technology behind the system and examples.

01634 266566
www.hochikieurope.com

enq. 110



OFFICE DEVELOPMENT

Aukett Fitzroy Robinson project re-energises regional development

Construction has started on a state-of-the-art office campus in central Reading, designed by **Aukett Fitzroy Robinson**.

The No.1 Forbury Place development will see a 185,000 sq ft office headquarters in Reading town centre – one of the largest speculative developments seen in the South East.

Owners M&G Real Estate and development manager Bell Hammer expect the scheme to bring central London quality to the Thames Valley.

The design of No.1 Forbury Place is intended to be an impressively dynamic experience to fascinate visitors at every angle. The building's ribbon-like vertical fins will provide solar shading and their twisting appearance will create the illusion of movement for those walking past. The design also incorporates a

'diagrid', a powerful diagonal form providing unique visual branding.

The stunning double-height reception will give a preview of the high quality finishes extending throughout the building's 26,000 sq ft of floor plates. The landscaped green spaces that border the building connect the campus with the adjacent Forbury Gardens. This is reflected on the upper floors, where green terraces provide unrivalled views across Reading.

Luke Schuberth, managing director at Aukett Fitzroy Robinson, said: "A building of Forbury Place's gravitas requires striking architecture and that is precisely what we've created. The dynamic design of Forbury Place should serve as an inspirational catalyst, signalling the next step in office design in the South East."

EVENT

November CPD and networking event a success

The team at **netMAGevents** would like to thank everyone who attended our evening networking and CPD event at the Building Centre last month, and to Stelrad and Armstrong who held fantastically informative CPD seminars.

Guests enjoyed a few drinks while meeting others from the architectural and construction industry and boosted their CPD hours by attending CPD seminars from radiator specialist Stelrad and acoustic ceilings and walls specialist Armstrong. Our Building Projects Gallery showcased the best ADF building projects from the last year and attendees also took the opportunity to browse the Building Centre's extensive product gallery.

Following four successful networking evenings at the Building Centre and the Roca London Gallery, we hope to see you at our next event, packed with CPDs, exhibitions and tours. Watch this space!

MUSEUM, FLORIDA

Lord Foster's plans for the transformation of the Norton Museum of Art

Three bold new pavilions, unified beneath a shimmering roof, herald the transformation of the Norton Museum of Art in West Palm Beach – host to the most important art collection in Florida. The masterplan, unveiled by Norman Foster in Miami, allows the museum to almost double its gallery space and lays the foundations for future growth to become Florida's leading cultural institution.



The first stage of **Foster + Partners'** masterplan will establish its key principles: the sympathetic setting of a 'museum in a garden', with the original axial arrangement re-established to unify the visitor experience, and the creation of new public facilities. The museum will become a focus for the community with event spaces separate from the Art Museum, strengthening its role as a cultural destination for Florida.

The overall proposals reinforce the concept of the museum within a garden. Taking advantage of the Florida climate, the landscaping of the gardens and central courtyard incorporates native trees and flowers to provide shaded walkways, and the former parking lot is transformed into a new sculpture lawn. The borders of the museum's expanded grounds are defined and integrate a row of houses at the perimeter of the site as an artist's

residence and studio, guest house and research facilities. The new sculpture lawn will provide an open-air venue for 'Art After Dark', the Norton's popular programme of film screenings and events, and is bordered by a glass circulation gallery, connecting the interior with the lush green setting.

The masterplan enables the development of the Norton to be implemented over time, beginning with the reconfiguration and extension of the existing museum to create the landmark Dixie Drive pavilions and the new public amenities within a lush garden setting. This will include two new galleries with state-of-the-art environmental systems, a sculpture gallery and a new education centre. Subsequently, it will be possible to build two new wings for galleries to the east as part of the long-term masterplan.




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RESIDENTIAL

UK's largest Passivhaus scheme given the go-ahead



Norwich based architects **Ingleton Wood** has achieved reserved matters planning approval for 250 riverfront apartments at Carrow Quay in Norwich, believed to be the largest scheme in the UK designed to Passivhaus principles.

While Ingleton Wood's planning consultants have negotiated some flexibility in the planning approval as to how a fabric first approach can be achieved through construction, Carrow Quay will potentially be the first high density development in the UK built to the Passivhaus standard.

The scheme, designed on behalf of local housing association Broadland

Housing Group, marks the culmination of three years of research by Broadland and its consultant team.

As an organisation responsible for 5,000 homes across East Anglia, Broadland Housing Group has made a commitment to target building fabric performance in an attempt to minimise fuel poverty for its tenants, having recently completed its first rural Passivhaus scheme in North Norfolk.

The Carrow Quay development is situated at the heart of Carrow Quarter, a growing residential district of regenerated brown-field land on the outskirts of Norwich city centre. It sits along the north bank of the River Wensum, adjacent to Carrow Road football stadium.

The scheme comprises three individual apartment blocks, ranging in height from five to nine storeys, linked at ground level by a podium deck housing a mix of offices, community space, car parking, and residential entrances.

Architecturally the proposals exhibit a restrained contemporary language on its perimeter elevations, acknowledging the architecture of the few leviathan industrial buildings that remain in the area. The three blocks have been designed to give the appearance of five discrete residential addresses by introducing intermittent 'shadow' buildings bookended between larger blocks to

visually break down the scale of the street elevation.

This is further tempered by the sculpting of apertures and the playful introduction of colour, slipped plane facades, and angular roof profiles.

Along the southern aspect, the scheme exhibits a deliberately more engaging architectural language. Courtyards open up to address the river frontage, with buildings framing communal residential gardens offering the majority of residents a river view.

The site location, close to the nearby Norfolk Broads, has heavily influenced the landscape design, with a focus on creating a compelling place for families to live by providing a range of amenity spaces. The emphasis is on firmly rooting the buildings in their setting, blurring the landscape from formal residential gardens to the naturalistic Broads environment that encroaches along the river corridor.

Cycle and pedestrian routes will extend along the riverside walk through a sinuously landscaped river bank, connecting into the wider city centre network. Ingleton Wood's architects, specialists in sustainable residential design, have worked closely with German Passivhaus experts Herz-Lang GmbH to develop the principles of the building's thermal envelope.

AWARDS

Retro Expo Awards 2013: winners announced

The winners of the **Retro Expo Awards**, celebrating Britain's most inspiring retrofit products, projects and people, were announced this month at the Building Design Centre in London. The Awards Ceremony, sponsored by the Better Retrofit Partnership, honoured 12 pioneering initiatives from across the UK.

Co-chair of the judging panel Paul Ruysssevelt, from UCL, commended

the high standard of entries. He said: "Entries to the Retro Expo Awards this year displayed considerable innovation and a clear commitment from industry and practice to deliver high quality retrofit technologies, practices and projects. [...] Many entries this year, and last, reported on technologies that have just been released and projects that have recently been completed. We look forward, next

year, to hearing how these technologies and projects are performing in practice."

The Awards were hosted by TV presenter and campaigner Penney Poyzer who won the DECC Retrofit Pioneer Award last year.

Visit adf-news.blogspot.co.uk and enter the reference number 27908 to view a full list of winners and more information.



Hobs launches 3D printing hub in north of England

To meet rising demand for 3D printing from architects and engineers, a 3D printing hub for the north of England, Hobs Studio, has been launched in Manchester, supported by £250,000 of investment from Britain's leading independent printing company **Hobs Reprographics**. Hobs Studio offers a one stop shop for 3D scanning, 3D drawing, physical model production and reprographics. This is the first 3D hub of its kind in the UK, as Hobs Studio brings everything together under one roof, offering the latest technologies such as 3D printing, 3D scanning and laser cutting. Hobs can offer turnaround times for printing of 3D models of just 24 hours. Hobs Studio will also offer Augmented Reality (AR) and Virtual Reality (VR) allowing clients to visualise a completed project in reality, to scale and more realistically than traditional 3D imagery.

0161 237 9566 www.hobsstudio.com

enq.112



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enq.114

editor's focus

Loft Centre Products

The Klan Spiral staircase is one of a range of nearly one hundred spiral staircases, kit stairs, commercial access and loft ladders that have been brought together in one place. The Loft Centre products website has all the technical information that a busy architect needs to source the best solution for a project, including electrically operated stairways. If help is needed in making a decision an experienced technical and design team is available in-house.

enq. 115

Dural

CMJ has been specified on projects including retail, commercial, transport, education, hotels, sport & leisure, prisons and even the Olympic Village at London 2012. Mercedes, Audi and Volkswagen have used CMJ movement joints because they create a seamless, designer look. These movement joints have also been used in the workshop areas because of their ability to handle a wide range of loadings. CMJ profiles can cope with heavy stresses and distribute them evenly between the foundation and floor covering, and can also prevent conduction of noise from footfall and other bodies.

enq. 117

NorDan

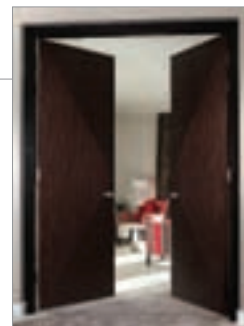
Tanums Fönster has been producing quality high performance wood windows and doors since 1949 with triple glazing since the 1970s. Tanums standard U-value is $1.0\text{W/m}^2\text{K}$, and also carries the stringent Swedish 'P' mark class C for severe exposure locations and buildings over eight storeys. Tanum's extensive range includes top turn, fully reversible windows; side hung, outward opening windows and french doors, inward opening windows and French doors, and sliding doors. Tanums redwood windows and doors are fully factory finished and can be supplied with aluminium cladding.

enq. 118

Todd Doors

Todd Doors has supplied bespoke oversized internal and external doors for Millgate Homes' exclusive, flagship development at Trevereux Hill, Oxted, Surrey. Doors supplied to these country homes, contemporary residences and penthouse apartments were a combination of internal American Black Walnut Alzira doors and white-primed Iris doors in glazed and unglazed configurations. The stunning entrances include a 2,530 x 1,085 doorset, which was stained walnut to match the internals of the residence, and high security, oak entrance systems for the apartments, supplied pre-hung in their frames to match the internal white Iris doors.

enq. 116



Albion Architectural Concrete

Albion Architectural Concrete has established a reputation for traditional concrete and cast stone products for new-build and restoration, but the company also excel in using concrete in innovative and exciting ways; its exclusive stone cellar is designed and manufactured in-house. It incorporates cool concrete, polished stainless steel, smoked glass, LED lighting and exotic timber to produce a wine storage solution second to none – a stunning example of utilitarian concrete melded with cutting-edge design and high-tech accessories combined to create an eye-catching feature.

enq. 119

Passivent

Passivent has launched a unique approach to achieving good air quality with minimal energy consumption and exceptional acoustic attenuation. The Passivent Active Range is a fully automatic system combining natural ventilation, mechanical assistance, unique SoundScoop acoustic technology and intelligent control. It gives effective and energy efficient ventilation throughout the year and in all weather conditions. Meeting Building Regulations and Priority Schools Output Specification for ventilation and acoustics, Active Range applications include education, commercial and office environments.

enq. 120

Low cost and big aims for iconic Knightsbridge hotel

How do you relaunch a major high end hotel in central London at minimal cost? That was the challenge facing the team charged with helping Sheraton reposition the five-star Park Tower Hotel in Knightsbridge, central London, as Steve Menary reports

Built in the early 1970s, the hotel at 101 Knightsbridge has an external circular design offering that is at odds with other more historic buildings in the area, whose architects include Henry Holland and Thomas Cubitt. The Park Tower was designed by Richard Seifert & Partners and offered 360 degree views that were considered daring in the dark days of the early 1970s.

The hotel bears a striking similarity to the tower at the Elmbank Gardens office block in Glasgow, which the Seifert practice designed around the same period. The Park Tower was opened by then Prime Minister Edward Heath on June 21 1973 and four decades on the building remains a stark contrast

to most other hotels in the vicinity, such as the adjacent Mandarin Hotel.

The hotel traded as the Sheraton Park Tower for many years. When Starwood bought the Sheraton brand, the hotel was subsequently shifted in 1989 from the Sheraton division to their Luxury Collection division yet retained the Sheraton name.

In 2013, 40 years after first opening, Starwood decided to rebrand the hotel as the Park Tower Knightsbridge. That rebranding centred not on the 280 bedrooms but a substantial makeover of 750 sq m of the main public areas, including the Hyde Bar and lounge, to move away from the original design.

Continued overleaf...



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Starwood brought in project managers Tower8, which has experience working across the hotel sector for clients ranging from Guoman Hotels to Hilton, Premier Inn and Thistle Hotels. Oliver Leach, Tower8's project manager on the Park Tower scheme, says: "The brief from the client was to relaunch the hotel in the luxury collection but with a minimum budget envelope, so we had to transform the bar and reception area and create a light attractive area and come up with something new."

"The old bar area was quite tired and probably 10 years old. There was a limited budget and we had to take what we had and uplift that. Previously, the bar area was very dark, the lighting wasn't good and some of the styling was clearly aimed at the Middle Eastern market. The look of the bar was very dated before with dark carpets and a lot of bronze. We wanted to get away from that with light and stainless steel."

The scheme was to cost £2.5 million, providing a challenge for the architects. Anita Rosato Interior Design practice has worked on a number of high-end hotel designs and refurbishments from Le Meridien at nearby Piccadilly to the Marriott Brussels and the Chewton Glen in the New Forest.

Anita Rosato Interior Design has also worked for Starwood on other projects, including the Citrus Restaurant at the nearby Sheraton Park Lane and overseas at the Sheraton in Rome, and was signed up to provide the design for the Park Tower rebrand.

Overall, Anita Rosato Design Practice were aiming for clean tailored lines and furniture with strong silhouettes to provide an instant sense of luxury and a timeless quality. "The priority was to enhance the arrival experience comfort and luxury retaining the spirit of the hotel and enhancing the experience of the guest," explains a spokesperson for the Anita Rosato Design Practice.

"The brief was to provide a discreet piano bar with echoes of a handsome, masculine cigar lounge. Feedback from guests had indicated that the bar area lacked privacy from the lift lobby and no longer met their expectations of luxury and comfort.

"Reinstating a sense of indulgent elegance was high on the list of priorities as this area needed to assume a discerning air of glamour, for in the evenings; this is a destination bar for

Continued overleaf...

'A sense of indulgent elegance was high on the list of priorities as this area needed to assume a discerning air of glamour'

A spokesperson for the Anita Rosato Design Practice

BUILDING
PROJECTS

'The reception includes a new fibre optic chandelier and new display cabinets, while the exterior of the hotel has also been lit.'



those in the know. Inspired by the timeless detailing of the traditional English saddle-smith, leather is the predominant upholstery.

"A palette of ivory and taupe has highlights of embossed leather; the colour of a reassuringly expensive malt whisky. The generously proportioned furniture pieces are contemporary interpretations of classical designs. Traditional details are used to reflect the historical origins and traditional skills that have been employed. Deep buttoning and hand applied decorative nailing illustrate the quality of the manufacture and create a feeling of luxury and longevity.

"The snaffle inspired carpet is also inspired by a traditional and very British reference. The scale and restrained colour palette make this a modern interpretation within a traditionally English environment. The dark stained mahogany booths have personal belled service ensuring that needs are met quickly and effortlessly. Mirror panelled screens increase the scale of the area and provide the delineation between the bar and the main lobby whilst the subtle integration of horsehair panels assist with the absorption of noise and soften the sound."

The design specification also included hand-made porcelain lights suspended over the bar to give a gentle focus with architectural lighting aimed at enhancing the mood for relaxation.

The materials specified by the Anita Rosato practice included stone for "classic elegance" and mirrors to "increase the spaces" and Eglomise for intimacy and quality. The design also specified specialist paint applications combined with gesso overlaid with a subtle silver leaf and hand tufted carpets and rugs, along with a site specific art installation in the reception made up of handmade and gilded rose petals referencing the rose garden in nearby Hyde Park.

The design specification included small touches of soft muted green that link with the palette of the Knightsbridge Lounge and lead the eye through to a subtly changing palette beyond inspired by the soft greens of the foliage of Hyde Park.

The scheme, which was subsequently entered in the bar category for the 2013 European Hotel Design Awards, also included redesigning the central lounge area and the design specification here included hand painted silk wall paper for the rotunda. This wallpaper was bespoke and arrived in 100 individually numbered sections that combined to produce the effect of magnolia trees in full bloom.

For the construction work, Tower8 put the scheme out to tender and Morgan Sindall subsidiary Overbury beat Beck Interiors, H&J Martin and Mivan to the contract. Although

Continued overleaf...



© Steve Menary



© Overbury

**BUILDING
PROJECTS**

'The new bar, though darker in terms of finishing, is lighter throughout.'

Overbury has worked for the Hilton Metropole, the company does not do a huge amount of hotel work and the speed of the contract and working in a live environment around customers at the Park Tower was to provide a challenge.

Oliver Leach adds: "The driver for the client was to finish as early as possible. We had to do the work in two phases as we had to keep the hotel open. So half the hotel entrance was partitioned off and a temporary tunnel put through with high quality finishings inside through from the entrance to a new temporary reception on the first floor."

The decision to replace the marble flooring in the bar and reception also offered a test. "The old marble floor had to come up because it wasn't right for the design," adds Leach. "That was expensive and created a programming issue as we only had 16 weeks and we had to jackhammer the floor up."

The noise and disruption created by the jackhammers meant that Overbury's staff worked between 11 o'clock in the morning and 3 o'clock in the afternoon, during which time customers would have checked out but no new ones had checked in.

To reconfigure the bar, new electrical ductwork was also needed and the cubicles were moved and refurbished with

new glass, leatherwork and brass, new pendant lights and new furniture. The new bar, though darker in terms of finishing, is lighter throughout. Leach explains: "The panelling in the bar is darker because of the sheen, but the lighting has been transformed and the old ceiling has come down."

The design specification also included art deco artwork and metal chain mail curtains. Leach adds: "The chain mail curtains were a key feature for the bar as; although they were heavy they reflected the light. We also put new trellising up outside the bar area so they could sit outside and look out onto the square at the rear."

The stone floor of the bar exterior was also replaced with marble and this summer the hotel was successfully relaunched as the Park Tower Knightsbridge after work was completed on time and to the £1.9 million budget.

The reception includes a new fibre optic chandelier and new display cabinets, while the exterior of the hotel has also been lit. The overall effect has combined to help owners Starwood create the impression both inside and outside of a rebranded hotel that will attract new customers and keep old ones coming back.

Project: Park Tower
Knightsbridge,
Belgravia, London

Cost: £2.5 million

Architect: Anita
Rosato Interior Design

Project manager:
Tower8

Quantity surveyor:
Tower8

**Mechanical &
electrical consultant:**
PSH Consulting

CDM co-ordinator:
Clifton (EAME)

Main contractor:
Overbury

**Electrical
sub-contractor:** LRS



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Next generation of kitchen ventilation fans



Fan manufacturer **Vent-Axia** has launched its latest energy efficient ventilation solution, the Lo-Carbon Kitchen Box Fan. Compliant for ERP2015, the fan also meets the new Part L Building Regulation requirements for reduced Specific Fan Power while offering end-users a 12-month pay back when upgrading from AC motor fans. It incorporates a long-life EC motor coupled with a backward curved impeller and an integral potentiometer that provides full manual speed control. These reduce the Kitchen Box Fan's energy and running costs by up to 44 per cent when compared to AC motor fans with transformer speed control. The fan can also operate in elevated duct temperatures of up to 120°C.

0844 856 0590 www.vent-axia.com

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newsletter

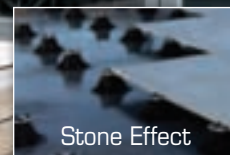
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email: unifold@ampteam.co.uk



enq.123

A landmark Leeds can be proud of

It may be a rubbish idea – literally – but awful puns aside, the goal of the innovative and striking Recycling and Energy Recovery Facility (RERF) in Leeds is impressive: remove recyclable waste from black bins to boost the recycling rate and recover an amount of energy from what's left over to power 20,000 homes. Jess Unwin reports

With planning approval from Leeds City Council and a permit from the Environment Agency, construction is underway and the RERF – designed by the internationally renowned Jean-Robert Mazaud of S'pace Architects – should be completed late spring/early summer 2016.

What the RERF will do from that point in time onwards is clever enough. Black bin rubbish collected from the city will be put through mechanical and optical separators to take out recyclable materials including mixed plastics, mixed paper, cardboard and metals from food and drink cans.

With recyclables removed, the remaining waste will be burned and the heat used to turn water into steam. The steam will then power turbines to generate around 11MW of electricity for export to the National Grid.

Even residual bottom ash – which can contain gravel-like remnants of glass, brick, stone, concrete and ceramics – will be recycled into construction aggregate, which will replace quarried material in the production of asphalt and cement.

But what the residents of Leeds, and in particular those close to the city's Aire Valley area, were keen to know during



Artist's impression © S'Pace

extensive public consultation was whether the RERF will be just as clever when it comes to how it smells, sounds and, of course, looks.

Located on a former wholesale market site adjacent to the newly completed A63 East Leeds Link Road, the RERF comprises two parts, occupying a development area of 4.1 hectares. The Energy Recovery section (or ERF), at 42m high, will certainly be high-profile, while the adjoining Mechanical Pre Treatment (MPT) section stands 18m tall. The two structures make the RERF's total length 160m.



The RERF will be run by the French-owned multinational company, Veolia Environmental Services. Paul Fowler, Leeds General Manager Veolia, says: “The design concept developed by S’Pace aims to achieve a high-quality facility which will act as both a landmark architectural structure and an efficient integrated waste management facility.

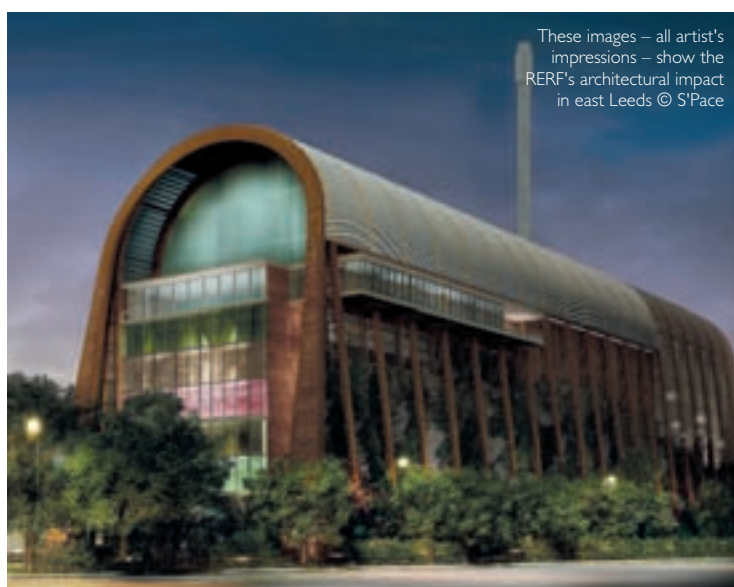
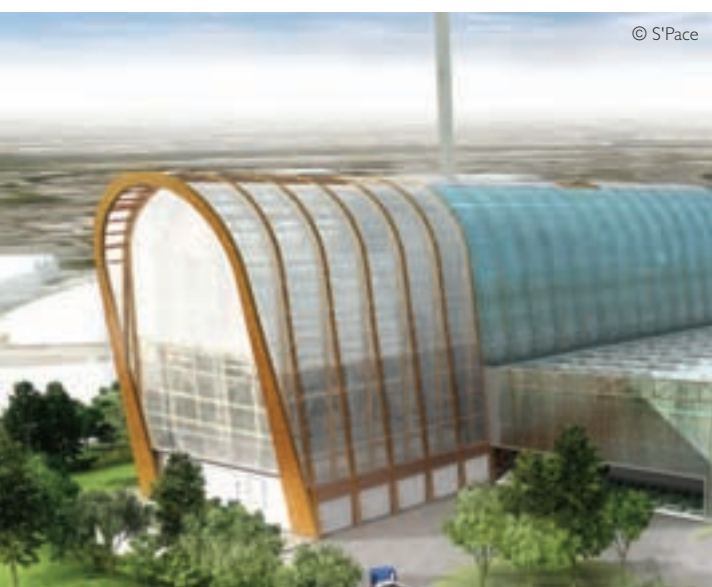
“Above all, a waste treatment facility such as the RERF must accommodate large industrial-sized process equipment. This equipment is very tall but covers a small footprint and thus the scheme was designed with this principle in mind. This

logically leads to design a building that would be taller than it is wide.”

S’pace was determined to design something more than just another industrial building and the idea of a high nave feature was born. During the planning application process, S’Pace revealed: “The idea of the nave is inspired by dirigible hangars that are, like our project, taller than wide. This shape is also structurally more efficient. We wanted to re-interpret this form in accordance with current environmental goals. To do so, we replaced the traditional concrete or steel structure with

Continued overleaf..

BUILDING
PROJECTS



These images – all artist's impressions – show the RERF's architectural impact in east Leeds © S'Pace

glue-laminated wood arches that we left visible.”

The result, say Veolia and S’Pace is a “strong and inspirational design, which will be a landmark building for east Leeds and provide the community with a building to be proud of as well as pointing to the RERF’s function”.

What S’Pace calls “evocative architecture”, using glass and timber framing, has already been dubbed by some in the city as “the Greenhouse” – particularly as a key feature is 1,800m² of green ‘living’ wall, or ‘vertical garden’ with vegetation planted directly into the southern façade to enhance the visual impact and provide bio-diversity. Veolia believe it’s the largest of its kind anywhere in the world.

The RERF building structures are made of glued laminated wood (or glulam), which Veolia and S’Pace believe provide clear benefits in terms of appearance but also of resistance to fire. Paul Fowler adds: “Parts of the façades are made of alveolar panels of polycarbonate. This is an unusual facade cladding that does not evoke the industrial nature of the building. Moreover, its transparency helps to bring natural light into the halls of work while ensuring a good seal to the weather. This material is easy to use and, like glass, is recyclable but unlike glass it is much less energy-consuming to manufacture.”

The eastern part of the RERF, which hosts the air-cooled condensers, must remain open to the winds in order to dissipate the heat generated by the process. To maintain visual continuity, these bays are dressed with a fabric mesh and plain textile, which conceals the equipment’s industrial character. It is a technique that S’Pace has already used at another Veolia plant in Newhaven, East Sussex.

On the other side of the main building, the administrative block is clad in large glass façades that contrast visually with the rest of the buildings. This architectural treatment allows visitor to immediately distinguish the function of these premises, says Paul.

The MPT building structures are made of trussed wood sheds. Paul points out: “S’Pace has proved on several European projects that this kind of light structure allows important spans and, thus, huge open spaces.” Finally, the bottom ash building is made of a three-hinged glulam arch structure set on a concrete basement wall and covered by a green roof system.

Paul continues: “The materials used for the project have been selected for their aesthetic and technical qualities, but also for their sustainability and minimal maintenance requirements. The economic aspect is of course part of the thinking too. Those materials reflect high-technology design with environmental quality, and the contrasts between transparency and opacity, industrial strength and natural feeling.”

While the ERF building’s south façade features vegetated wood cladding, the north façade has a translucent, matt-finish polycarbonate panels. The top of the arch is covered with

Artist’s impression © S’Pace



curved metal cladding. Fabric mesh and plain textile are used for the area containing the air-cooled condensers, enabling sufficient ventilation but also providing a visual screen from roads and countryside.

The trussed wood sheds of the MPT building are covered by metal cladding on the west side of each section, and by polycarbonate on the east. Says Paul: “This materials choice gives rhythm to the façade and makes it ‘dynamic’, but also provides an optimal natural lighting for workers inside.”

Noise levels once the RERF is operational will be fully regulated, strictly monitored and enforced and all the waste processing equipment will be inside the buildings. In terms of air quality, all emissions must be within safe limits set by the government and will be measured and monitored by the Environment Agency.

Waste delivered to the facility will arrive in covered vehicles and no residual household waste will be stored or handled outside. The RERF itself is designed so that air pressure inside the building is lower than on the outside. This means that air continually flows into the building and through the combustion process, stopping any smells and dust from escaping.

When completed S’Pace, Veolia and Leeds City Council believe the RERF will act as an important “gateway” development when coming into Leeds from the east and will act as a catalyst for future regeneration development in this part of the city.

‘Strong and inspirational design, which will be a landmark building for east Leeds and provide the community with a building to be proud of as well as pointing to the RERF’s function’

Veolia Environmental Services and S’Pace Architects

Main contractor:
Clugston

Architect: S’Pace

Project management:
Veolia

A&G – a BIM first



Acheson & Glover (A&G), a manufacturer of premium quality hard landscaping and precast concrete products, has proudly announced it is the first hard landscaping concrete manufacturer to go 'live' on BIM (Building Information Modelling). It aims to host a comprehensive range of systems and products and to become the

primary source of standard and proprietary BIM objects. A&G recognised the growing need for this type of information among designers. A&G Managing Director Stephen Acheson said: "We are delighted to be part of BIM. It provides us with the opportunity to promote our products in an area that will fast become an integral part of the design needs of the built environment."

0845 601 5207 www.acheson-glover.com

enq.124

Gainsborough delivers solution for care home



Gainsborough Specialist Bathing, part of the Care in Bathing Group, was selected to design, supply and install a range of assistive bathing and transfer solutions at a new care home in Lyndhurst, Hampshire. Gainsborough Specialist Bathing solutions were installed throughout the development and included four Kent hi-lo assistive baths, one Ascot hi-lo bath and five Glide 200 ceiling track systems. The

company's designers utilised their unique Aspect™ design software to establish the most appropriate bathroom layouts throughout the care home. Gainsborough successfully resolved several challenges during the build so that solutions were delivered on time and within budget.

enq.125

Finalist in 3 categories and a win for Avonside



Avonside Group Services entered the Celebrating Construction in South Yorkshire Awards for the first time and, having achieved a hat-trick of finalist listings, it went on to win the Innovation Award for the groundbreaking RoofSpace I-Roof™ system, designed, developed and manufactured by Group company, RoofSpace Solutions. The Innovation Award, the latest in a long line of accolades heaped

upon the RoofSpace I-Roof™ system, recognises innovation that results in increased competitiveness, performance, durability, safety or economy in the construction process.

0800 731 5982 www.avonsidegroupservices.co.uk

enq.126

EPIC warns of ADL2014 shortfall



In order to stimulate and maintain the slow recovery of the construction industry, the government has recognised areas that would struggle to achieve greater carbon savings under current circumstances, but at the same time

EPIC believes that it now has considerable ground to make up in order to achieve the targets of net zero carbon construction by 2019 for non-domestic buildings. An aggregate improvement of nine per cent over 2010 standards will be required by ADL2A 2013, ranging from around three per cent for industrial/warehousing to 13 per cent for commercial/offices. EPIC has been part of the government's advisory group for industrial type buildings.

020 8786 3619 www.epic.uk.com

enq.127

Learning Centre wins top medal in Brick Awards



A modern learning environment described as "a fantastic building where buildings don't get much better" has won the Supreme Winner Award and the Best Education Building Category at the Brick Development Association's 2013 Brick Awards. Ortus, a new 1,550 sq m building in London, houses learning facilities, cafe, exhibition and ancillary spaces. Duggan Morris Architects were commissioned by the client, Maudsley Charity, a charitable foundation which invests in projects to support mental healthcare, well-being, research, training and development. Duggan Morris Architects chose a specifically blended mix of Freshfield Lane First Quality Multi Facings, Selected Dark and Light Facings for their colour, tone, texture and variation. From the outside, the building has a blend of brickwork moving from dark to light representing the graduation from London clay colour at ground level to a grey London sky colour at the upper levels. Mara Build was the brickwork contractor for the project. The architects sought to create a building that seemed domestic and small and not at all institutional. The brickwork is a key component of the architecture both internally where it provides the internal face to the external walls, and externally, where it is employed as an infill to a well-proportioned, pre-cast concrete frame.

020 7323 7030 www.brick.org.uk

enq.128

SE Controls extends design team with new key appointment



Smoke and natural ventilation systems specialist SE Controls has reinforced its design, R&D and product growth team with the appointment of Dr Chris Iddon, who joins as design manager to spearhead the company's active and growing product innovation programme. While Chris's initial academic studies focused on biochemistry, gaining a PhD in the subject in 2001, he has since been concentrated on the construction industry and the built environment, having worked in a design management capacity within the contracting sector. He subsequently went on to gain an MSc with Distinction in 2012 from Loughborough University's Low Carbon Building Design course, prior to joining SE Controls. "The design, operation and efficiency of natural ventilation systems are being driven by an increasingly diverse range of key criteria encompassing building design, climate change and legislation as well as advances in technology," explained Dr Iddon. "SE Controls already has a strong track record for innovation, including the recently launched NV LogiQ data logger and room controller, but we are already working on further advances in natural ventilation control solutions." Since joining the company, Chris was a selected finalist in CIBSE's Graduate of the Year Award and has also had a joint research paper on *The embodied and operational energy for new build housing and construction methods* published in the academic journal, *Energy and Buildings*.

enq.129

Koemmerling joins Cambridge & updates site



Koemmerling Chemische Fabrik GmbH has announced that it is supplying both materials and expertise to support several research projects currently being undertaken by Cambridge University's Glass and Façade Technology Research Group. The Group aims to provide solutions to real world challenges in the field of structural glass and façade engineering through fundamental and application driven research.

The work coincides with the upgrading of the company's website which now includes a new page dedicated to the liquid composite range. It contains images of some of the vast range of applications for which these products are suitable, along with a table that acts as an initial guide for product selection.

01895 465 600 www.kommerlinguk.com

enq.130

Flooring rivals unite for charity



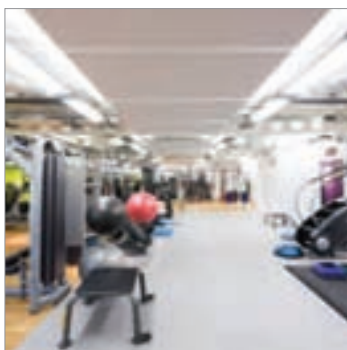
Two of the UK's leading flooring manufacturers have joined forces to make a donation of £50,000 to Children in Need. Tarkett has teamed up with Polyflor to make the donation and contribute to the record £31 million already raised by the BBC telethon. Jason Crump, managing director of Tarkett Ltd in the UK and Ireland, said:

"Tarkett and Polyflor may be competitors but both companies can agree on the valuable work carried out by Children in Need. Corporate social responsibility is of huge importance to Tarkett and we like to do all we can to support the good work carried out by charities in the territories in which we operate."

01622 854040 www.tarkett.co.uk

enq.131

Armstrong Ceilings are more than fit for purpose at new-look leisure centre



A combination of mineral tiles and canopies from Armstrong Ceilings have scored a hat-trick in the £2 million redevelopment of a leisure centre. Sixteen 1,800mm x 1,200mm Optima rectangle canopies take pride of place in the free weights and weights machines area of the new gym and are complemented by 365m² of Perla OP 0.95 (the first mineral tile in the world to gain Silver Cradle to Cradle certification) in the gym. In addition, some 230m² of Ultima MicroLook tiles were installed by specialist sub-contractors Gypsum Plasterers for main contractor Morgan Sindall in the new café, together with 500m² of Dune Max Regular tiles in the studios, stairwells and corridors. The six-month project involved the redevelopment of Woking Borough Council's 1960s concrete-framed leisure centre to make it more accessible and enjoyable. Arkon Director Ian Connew commented: "As a practice we have utilised Armstrong products in numerous schemes and they have performed well, creating spaces with clean lines and delivering the qualities required in specific environments. At Woking, the greatest challenge was to maintain the existing leisure centre in use while undertaking the works. This was particularly critical in the reception area." David Wilson of Gypsum Plasterers, said: "The Armstrong products were fantastic."

01895 251122 www.armstrong-ceilings.co.uk

enq.132

Tubosider recruits David Kyle



David Kyle is the new Scotland and north-east England area manager for Tubosider UK, a leading supplier of steel-formed water management systems for attenuation, drainage, harvesting and recycling. At 41, David joins Tubosider with years of experience in water management solutions as business development director for Polypipe, and besides supporting business in Scotland, will help

provide clients with further products and developments. Backing competitively priced, specification-driven solutions with good personal service is exactly what drew him to Tubosider, and having always worked in construction contracting David sees business in Scotland continuing to recover.

01744 452900 www.tubosider.co.uk

enq.133

Lanes to provide reactive drainage support




Cobalt Park, one of the UK's largest office parks, has selected Lanes Group to provide reactive drainage maintenance support. Eddie Roughley, the Lanes Tyne and Wear regional manager, said: "We are delighted to be able to support Cobalt Park. [...] Lanes Group has the capacity and technological expertise to respond

to the drain maintenance requirements of the biggest commercial premises, so we are confident we are the natural choice for clients like Cobalt." This year, the company won the Construction News Health and Safety Excellence Award. It has also won the RoSPA Gold Award for health and safety four years in a row.


0161 788 2261 www.lanesfordrains.co.uk

enq.134



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enq.135

Sustainable growth in natural materials

Lawrence Young, chairman of the Structural Timber Association, examines how timber can meet the needs of the UK's commercial sector



Timber has been specified by architects for many years, but the introduction of new structural timber systems has led to an increase in the use of the material by the commercial sector. The benefits which timber brings – including flexibility of design, superb sustainability credentials and speed of build – means that it is ideally positioned to meet the commercial sector's immediate demands, as well as longer term business objectives.

Throughout the recession, many Structural Timber Association members evolved their businesses to adapt to the changing demands of the market. As a result, the timber industry is no longer defined simply by the supply of timber kits, but by integrated construction solutions, including cross laminated timber, glulam and SIPs. The introduction of these new build systems has broadened the appeal of using timber in commercial construction, as it can now be used in more applications than ever before. The structural strength provided by many of these materials, and their ability to carry heavy loads, means they are now being used in place of steel in a number of buildings, such as supermarkets and swimming pools. This allows for the creation of large, open internal spaces, which are also more aesthetically pleasing than steel or concrete.

'Timber guarantees a faster construction time, requiring around 20 per cent fewer on-site labour days and a shorter construction period overall.'

With timber now a viable option for commercial buildings, the material has many attractive benefits. A real bonus for the commercial sector is the speed of build that is achievable when using timber, as the faster the structure is built, the sooner the operators can start using the complete structure and generating income. Timber guarantees a faster construction time, requiring around 20 per cent fewer on-site labour days and a shorter construction period overall. By planning and executing the use of structural timber at its optimum, there are also significant cash-flow benefits for developers.

The prefabrication inherent in the production of off-site timber panels has many advantages for commercial projects, as the higher levels of quality control can provide additional financial benefits, including reduced site prelims, less wastage, improved productivity and reduced labour costs. Furthermore, prefabricated systems work to good effect on sites where space is at a premium. In city centre locations, where room for manoeuvre can be lacking and surrounding buildings may be occupied, prefabricated systems can be put up quickly and quietly, reducing disruption and improving relations with the local community.

Along with the advantages on site, building in structural timber can help commercial operators meet their corporate social responsibility targets. Timber has excellent short and long term environmental properties, as it is the most sustainable form of construction. Timber is the only organic, non-toxic and



naturally renewable building material, and is effectively carbon neutral, as the carbon dioxide produced in both its transportation and manufacture is absorbed by the tree during its lifetime. In comparison, the production of concrete and steel accounts for around 8 per cent of the world's carbon dioxide emissions, due to its carbon intensive production process.

In the longer term, buildings built using structural timber are a perfect fit with the low carbon agenda, due to their ability to achieve very high insulation levels and increased air tightness.

This in turn reduces the structure's levels of energy consumption; an important consideration for businesses big and small, especially as energy bills continue to rise. These impressive sustainability factors mean that timber is well positioned to meet increasingly strict environmental standards, as set out by national, regional and local governments. This includes the modifications to Part L of the Building Regulations – due to come into force in April 2014 – which will place a 9 per cent uplift on the efficiency standards of non-domestic buildings, as well as a new fabric energy efficiency target.

An ideal example of structural timber's flexibility of use for the commercial sector is the new Center Parcs, based in Woburn, Bedfordshire. A number of STA members have been involved in the construction of the company's fifth UK village, which has been built to accommodate rising visitor numbers. The site has structural timber at its core, with 625 lodges built using timber frame and SIPS wall panels, with the Subtropical Swimming Paradise constructed from the UK's largest glulam structure. The park is due for completion in spring 2014, and as a result of its timber-based construction, will be the company's most sustainable site, using 25 per cent less energy than an average village.

Because of all these factors and major projects demonstrating the many benefits of timber construction, the structural timber industry is now ideally positioned to meet the needs of the commercial sector, both now and in the future.

enq.136

'Timber is well positioned to meet increasingly strict environmental standards, as set out by national, regional and local governments.'



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New Timber Frame Q-Mark certification



BM TRADA has launched a new Timber Frame Q-Mark certification scheme, aimed at improving the quality and performance of timber frame and helping manufacturers prepare for CE marking. The new Timber Frame Elements Q-Mark scheme replaces an 'Interim' Scheme, which came to an

end on 31 March. Obtaining third party certification through the scheme will also offer a range of benefits for members. It provides them with a competitive advantage by demonstrating that they are working to established performance requirements and enhancing the company's reputation for quality, helping them to generate new and repeat business and improving customer loyalty.

01494 569750 www.bmtrada.com/technical

enq.138

Timbmet extended Oak Moulding range



Timbmet has updated and extended its range of kiln dried Engineered White Oak Mouldings. Providing clear, knot free profiles with increased stability and minimal waste, the Timbmet range is extensive. It now includes ex-stock skirting and architrave products, along with a range of stair products including mopstick and crown handrails, infil and base rails. The door and

window range includes rebated door casings, door linings, weather bars and window boards. A moulding for internal cladding application completes the range. The range is available from stock, ready to be delivered within 48 hours through the company's national distribution network or its merchant partners.

01865 860303 www.timbmet.com

enq.140



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enq.142

HardieFloor® arrives in the UK



Fibre cement building materials manufacturer, **James Hardie**, has launched a structural flooring system into the UK market; HardieFloor®. The patented fibre cement, tongue and groove boards are perfectly suited to residential building projects as a substitute for unreliable

chipboard. Unlike with timber, tiles can be applied directly on to HardieFloor® boards eliminating the need for additional membranes and adhesive. It also works very well with under floor heating systems as it enables much more heat to be transmitted into a room. The robust floor boards do not expand or contract with the heat, ensuring that the tiled floor remains completely intact.

0800 068 3103 www.jameshardie.co.uk/hardiefloor

enq.139

Third CDL handbook is published



Constructive Details Limited, a joint venture by the BBA and Robust Details Ltd, has launched its third handbook of masonry detail junctions developed for the Aircrete Products Association. The publication of the latest Constructive Details handbook for solid external

walls completes the set for aircrete blocks, with the common constructions of partial fill, full fill and externally insulated solid walls all now being covered. It is available for download free of charge, along with the other handbooks, via a dedicated 'resources' page on the CDL website.

01923 665300 www.constructivedetails.co.uk/resources

enq.141

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A unique, state-of-the-art single ply roofing system can help deliver a better end product with a significant reduction in cost. Studies show that **Protan's** innovative prefabricated roof process can cut welding by up to 70 per cent: on a typical 10,000m² roof: equivalent to 60 hours' less labour and its associated cost. Protan's prefabricated system uses Protan single ply membrane, which has been developed to withstand even the harshest weather conditions found in Europe, and is proven to perform for 30 years. On site, all the contractor has to do is fix along the edges and abutments, and detail round penetrations etc. Protan produces a range of factory-formed detailings to further simplify the process.

01925 658 001 www.protan.co.uk

enq.143

Copper at the seaside



Wilkinson Eyre Architects' recently completed Splashpoint Leisure Centre in Worthing is clad in Nordic Standard copper from **Aurubis Architectural** and red cedar – a palette of self-finished, natural materials selected to age gracefully and withstand the aggressive conditions of its unique maritime location. Its design is defined by sinuous, ribbon-like forms linking land and sea – likened to a series of twisting sand dunes. Copper and timber were chosen as materials that complement each other well and that form part of the English seaside tradition.

architectural-products@aurubis.com
www.aurubis.co.uk/architectural

enq.144



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145



Winner: Best Worldwide



One of the UK's slimmest sliding glass doors reflect trend for grand designs

With the UK launch of its Hi-Finity ultra-slim sliding patio doors, **Reynaers at Home** has made it simple for architects and homeowners to bring to life any contemporary grand design that requires uninterrupted floor-to-ceiling glass. Structurally glazed to keep the aluminium frame to a minimum, these doors are designed for the outer frame to be fitted behind the brickwork. With the resulting floor-to-ceiling glass and only a 35mm aluminium interlock between door panels, the Hi-Finity door delivers stunning aesthetics with no compromise on energy efficiency, weather resistance or security. Underpinned by exceptional engineering expertise, the doors are available with a maximum door height of 3,500mm and a maximum door panel weight up to 500kg. By combining the huge panels in a range of double track and triple track designs, Hi-Finity doors extend design possibilities in terms of size while ensuring smooth operation with even the heaviest of loads. Each door meets industry-leading standards of thermal insulation, weather resistance, noise reduction and security, helping to keep any home cosy, safe and warm.

0121 421 9707 www.reynaersathome.co.uk

enq.146

Carl F Groupco launches CFGLock⁺



Carl F Groupco has launched the CFGLock⁺, a cable restrictor which meets CE test standards, is designed to increase safety by restricting how far windows open to reduce the risk of accidental falls. Produced for ease of use, and with health and safety in mind, the CFGLock⁺ is an economic solution, ideally suited for new, retrofit and existing installations. Designed for PVC, timber or aluminum profiles, fitting is fast and simple, with full instructions and screws supplied.

Key locking is provided as standard with a push button version available to order. A cable length of 150mm is provided. Longer cable lengths, spare keys and colours other than white are provided as special orders.

enq.147

Timber door canopies by George Woods



George Woods UK manufacture a large range of door canopies, all hand made in timber from sustainable forestry. The company always holds a large stock of its standard size canopies, which enables it to offer a next day delivery service. A bespoke design service is provided for both timber door canopies and barge boards, which can be crafted from your own design. Beautifully crafted

porch canopies are available in soft wood and include an extensive range of barge boards (fascia boards), all of which are manufactured on site by hand in the company's workshop. Having a canopy prolongs the life of your front door and extends the time between maintenance and adds value and a greater visual appeal to your home. The company's products are all FSC accredited.

enq.148





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enq.149

Holme Mills, Bedfordshire

Standing on the banks of the River Iver, Holme Mills – first mentioned in the Domesday Book – was one of Bedfordshire's major producers of animal feed and flour. In the 19th century the mills suffered two catastrophic fires, presenting the owners, the Jordan family, with the chance to completely rethink their traditional working methods, replacing the original millstones with a more efficient metal roller system and the waterwheel with a water turbine in the new four-storey premises.

From the early 1970s the mills produced the famous Jordans breakfast bars and cereals but recently a new mill was built nearby thus allowing the original Holme Mills to be refurbished and restored and a new visitor centre constructed to provide a riverside café, meeting rooms and a mill store.

As part of this refurbishment the original metal framed windows needed to be fully overhauled and made thermally efficient, in order to provide a more comfortable environment. As it was not possible to replace the windows the solution to this



problem was secondary glazing. The secondary glazing had to respect the original window design and so a slim hinged casement with flush colour matched hinges and flush lock was specified.

Selectaglaze was chosen to carry out this work

using their slim line Series 45 system, one of four hinged systems in the company's range. Each window is bespoke and fitted with close tolerance to exclude draughts and reduce heat loss in the region of 50 per cent.

enq.150

Call 01727 837271, email enquiries@selectaglaze.co.uk or visit www.selectaglaze.co.uk

VIVIX® facade panels used for social housing



VIVIX® exterior facade panels, from Formica Group, have been used to clad the Harthill House, a new social housing project in Wolverhampton. Architect Richard Peterkin from BM3 Architecture specified VIVIX® panels in Storm and Paprika to complement the existing red brick buildings in the area. To clad the new building, BM3 Architecture specified VIVIX exterior facade

panels. Developed in consultation with leading architects and colour consultants, VIVIX panels offer a fresh perspective. Available in plain colours, patterns and woodgrains, the VIVIX® range provides architects, designers and specifiers with the possibility to create not only individual design features but also allows for a harmonic blend with the surrounding area.

enq.151

Bluclad is top of the class at Ordstall Primary

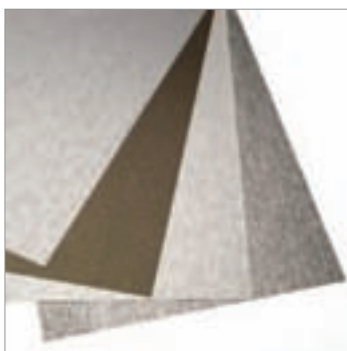


Marley Eternit's Bluclad render board received top marks at Ordsall Primary School in Nottinghamshire, where it was used to create a striking finish on a new school building. The calcium silicate Bluclad render board offers superior dimensional stability, creating a lasting

seamless finish for the new classroom block. Specialist contractors, Aumas Ltd, chose Bluclad for Ordsall Primary School having used it on a number of projects in the past where they were impressed with its performance and ease of installation. Bluclad can be used with a variety of thin coat polymeric renders, textured finishes and other surface coatings and its outstanding dimensional stability reduces substrate movement that can result in surface cracks.

enq.152

RENOLIT EXTERIOR adds metallic designs to range



Bronze Platin and three metal brush effect designs; Aluminium, Silver and Heavy Metal, have recently been added to the RENOLIT EXOFOL range of exterior films. Their prestigious appearance in conjunction with the additional benefits provided by the EXOFOL FX formulation make them of particular interest in the field of architecture, providing on-trend metallic designs in a long lasting construction which is particularly well suited to commercial developments, modern new builds or grand renovation projects alike. The new designs incorporate special metallic pigments that contribute significantly to the overall level of realism and feature a satin effect surface finish with a corresponding fine brush metal emboss to complete the look. Bronze Platin is a unique dark brown burnished bronze with maximum appeal. When used in exterior applications its rich colour will adapt and reflect with different levels of sun and light to stunning effect. Aluminium Brush Effect is the lightest of the three brush effect variations with a very light grey background and slightly darker silver brush; it emulates classic white brushed aluminium. Silver Brush Effect is a slightly darker grey background with a silver brush results in sophisticated silver grey aluminium. Heavy Metal is a high impact design of silver brush with anthracite grey gives a strong design statement.

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enq.153

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New Heriot Watt University study gives thumbs up for timber windows

Steve Purcell, regional sales director, Mumford & Wood

“Products that are made to the British Woodworking Federation’s (BWF) Timber Window Accreditation Scheme (TWAS) standards, tick all the boxes for Service Life Planning (SLP), Whole Life Costing (WLC) and Life Cycle Assessment (LCA),” says Steve Purcell, regional sales director, Mumford & Wood. “Which means they are greener, will last longer and are better value than any other frame material. In fact timber windows made to TWAS specification have a life expectancy that could outlive many building construction types.”

In the first part of a study commissioned by the Wood Window Alliance (WWA), work carried out by Dr Gillian Menzies, Institute for Building and Urban Design, Heriot Watt University, 2012, considered the SLP and WLC of four commonly used materials used in window frame construction: timber, modified timber, aluminium-clad timber and PVC-U. It revealed that timber frames made to WWA standards, the organisation affiliated to the British Woodworking Federation (BWF), have an expected life of between 56-65 years, more than twice that of PVC-U. Windows and doors manufactured from naturally durable, slow grown timber are made in accordance with the BWF’s third party TWA scheme and are rated A+ under the BRE Global 2008 Green Guide to Specification, so achieving essential materials credits for the building. WWA members meet TWA scheme criteria as a minimum requirement of membership.

Life Cycle Assessment

The construction industry is the highest consumer of materials globally, consuming around 6 tonnes of material per person per year. Energy is needed to create buildings through extraction and processing of raw materials, manufacture of finished products and components and to process materials at their end-of-life to recycle and/or dispose of. There are many methods available for assessing the environmental impacts of materials. LCA is a methodology for evaluating the environmental load of processes and products during their whole lifecycle and is one of the various environmental management tools currently available. Since its inception in the 1960s LCA has become an internationally recognised method for assessing the environmental impact.

The latest findings of this independent and impartial, three-part research project allows a complete LCA based on like-for-like longevity, cost and environmental impact comparison

of timber and alternative materials as well as their Global Warming Potential (GWP). Carried out within ISO 14040 and PAS2050 guidelines, the study finds that all timber based window frame materials are preferable (to PVC-U alternatives) in every consideration.

The CO₂e contribution of a PVC-U frame over 60 years is 103kg of CO₂e. Substituting a single timber frame for a PVC-U frame saves approximately 160kg CO₂e over a 60 year life of the window = carbon neutral

In identifying the full characteristics of the four frame materials under test timber windows are constructed from high quality, preservative treated softwood to BS EN 942, BS EN 599 and BS817, and from defect free heartwood and with end-grain and construction joint sealing. All windows are factory glazed and assumed to be installed in a recess.

Continued on page 41...

‘Timber windows made to TWAS specification have a life expectancy that could outlive many building construction types’





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Modified timber is defined as timber which has undergone acetylation. This technique creates a high performing wood, which can be used in demanding outdoor applications including windows, doors, decking and cladding. Wood contains hydroxyl groups that interact with water according to changes in climatic conditions – the main reason wood swells and shrinks. The acetylation process results in a more stable timber, which is rot resistant and durable.

Aluminium-clad timber windows are timber windows with a full aluminium profile clad to the exterior of the window. It is commonly protected with a powder coating, and typically guaranteed for around 25 years. The interior of the window appears as a timber window.

Alu-clad timber products provide low maintenance, high style and versatility. They perform perfectly in coastal regions and areas of severe weather exposure where the special protective coating of the alu-clad frame provides superb weather proofing and high resistance to moisture. The timber internal frame creates a striking contrast while the triple glazed option increases energy efficiency and security.

PVC-U windows are constructed from 70mm extruded PVC-U extrusions with mild steel reinforcement.

In conclusion, there is no single or optimal timber based window frame material; there is not a one-size-fits-all solution. For various exposure conditions and applications one timber based product may be preferable over another in service life terms, while others may prevail in cost or global warming potential terms. It is clear that PVC-U windows are not comparable with wood alternatives in GWP terms. In fact, PVC-U windows are not comparable with wood alternatives over a number of impact factors. While the initial capital cost of PVC-U windows is the least expensive, the total lifetime cost should be the primary consideration. In this, timber offers the lowest cost option while alu-clad timber is favoured in certain locations benefitting from its extended service life.

Using the very best and most durable engineered timber windows and doors have a life expectancy of more than 60 years (subject to maintenance schedules) while aluminium clad products can predict an expected service life of 70-80 years.

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enq.160

Comar 7P.i Folding Sliding Door System



Comar Architectural Aluminium Systems has launched its 7P.i Folding Sliding Door. With smooth operation and solutions to meet the design brief, the aluminium system offers a myriad of possibilities for commercial and residential projects. It provides a versatile moveable wall that allows space

and light into any project. Even in the winter months it offers light as well as keeping the building insulated through the trademarked Comar 7P.i thermal break technology. Due to the trade-marked Pi thermal efficiency, U-values are well below the required Building Regulations targets. The doors and jamb are both adjustable to enable long-term smooth operation.

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

enq.161

Durability and style is the norm from HOPPE



Duranorm, the range of lever handles from hardware specialists HOPPE UK, has been enhanced with a new finish designed to make the handles even more durable than ever, featuring stylish profile levers on a choice of rose or backplates, plus fittings in a hard-wearing KTL finish. Suitable for residential applications, the duranorm fittings are supplied complete with fixings and a solid spindle. Each handle has a

choice of backplates or roses and matching escutcheons, indicators and turns are also available in the range. Included on a successful fire test to BS EN1634, the duranorm handles have been assessed for use on FD30 and FD60 fire doors and all are supported by a five year mechanical and operational guarantee.

enq.163

Fully automated bi-fold garage doors



Featured this month, in a new installation in Jersey, is the fully automated bi-fold garage doors. These come with flush construction, a pedestrian access option, matching designs to front doors and the same features as our front doors – with steel reinforcement, high security and high insulation.

The versatility of the motorised opening can be seen in the photo, allowing full open or limited access. This new garage door system is available in all Urban Front door designs, in any RAL painted finish or any of the six available wood options: Iroko, Western Red Cedar, European Oak, American Black Walnut, Fumed Oak and Wenge.

01494 778787 www.urbanfront.co.uk

enq.165

GEZE in the spotlight at university



GEZE UK has provided the automatic doors on the main entrance lobby for the new Parkside Building at Birmingham City University. The Slimdrive SL automatic sliding doors were chosen for the entrance lobby primarily because the very low profile height of 7cm enables almost invisible integration into the facade. The overall effect is

one of maximum light and space in the impressive atrium while creating a lobby area that minimises heat loss – essential for the building to meet its low energy targets. GEZE's products also feature elsewhere in the building, as architectural ironmonger Eisenware specified GEZE door closers throughout.

enq.162

A higher standard of security from Gilgen



Gilgen Door Systems has launched a new range of burglar-resistant, automatic sliding doors designed to target harden buildings from the threat of break-in, theft and criminal attack. The Gilgen SLX-RC (Resistance Class) automatic door is one of the first to have passed the latest EN1627 European burglar

resistance standard. Testing institute TÜF Nord were commissioned to test both the SLX RC2 and SLX RC3 models. Crow bars, club hammers and drills were used to try and force the Gilgen doors open over a sustained time period without success. The doors also withstood static loads (RC2=3000 N/RC3=6000 N) and also passed the dynamic impact test with a pendulum weight of 50kg.

0800 316 6994 www.gilgendoorssystems.co.uk

enq.164

Reynaers achieves Secured By Design approval



Reynaers Aluminium is one of the first aluminium systems companies to achieve the coveted Secured by Design 'Police Preferred Specification' for its sliding systems. The approval covers three Reynaers sliding systems including the versatile CP 130, the thermally insulated CP 155 and the popular CF 77 for use on new housing developments, including

individual housing and apartment blocks. "Early on we recognised the need for security assured sliding doors which came under the 2010 Secured by Design new homes guide. This was further reinforced by the recent official introduction of sliding doors into the PAS 24 2012 standard," said John McComb, technical director. "Achieving the highly coveted Secured by Design approval for our sliding systems is a major achievement."

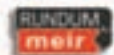
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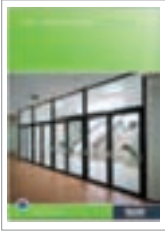
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enq.167

New brochure from Schueco Jansen



Schueco Jansen, one of Europe's leading specialists in the design and supply of steel windows, doors and façades, has released a brochure containing details of the company's comprehensive security offering which includes a sliding-door system never before available in the UK. The term 'security' covers not only burglar and bullet resistant systems but, in particular, Schueco Jansen's wide range of fire-resistant products delivering both E and EI protection. In addition to façades, windows, internal single

and double doors, the latest introduction is the innovative Janisol 2 automatic sliding door with EI30 fire resistance, and an optional emergency exit function.

01908 282 111 www.schueco.co.uk

enq.168

GEZE goes green with ISO 14001



One of the UK's leading door and window control system manufacturer, GEZE UK, is demonstrating its green credentials by achieving ISO 14001. ISO 14001 is the world's most recognised environmental management standard. To achieve it organisations need to

measure their impact on the environment and set goals to improve their performance. Among the demanding targets GEZE UK set itself were to reduce the average emissions of company cars and to reduce paper usage year on year. GEZE UK has introduced a fleet of new more environmentally friendly cars for its sales team and to date the company car emissions have reduced to 139.4. The target is to reduce this by a further five per cent by June 2014.

enq.169

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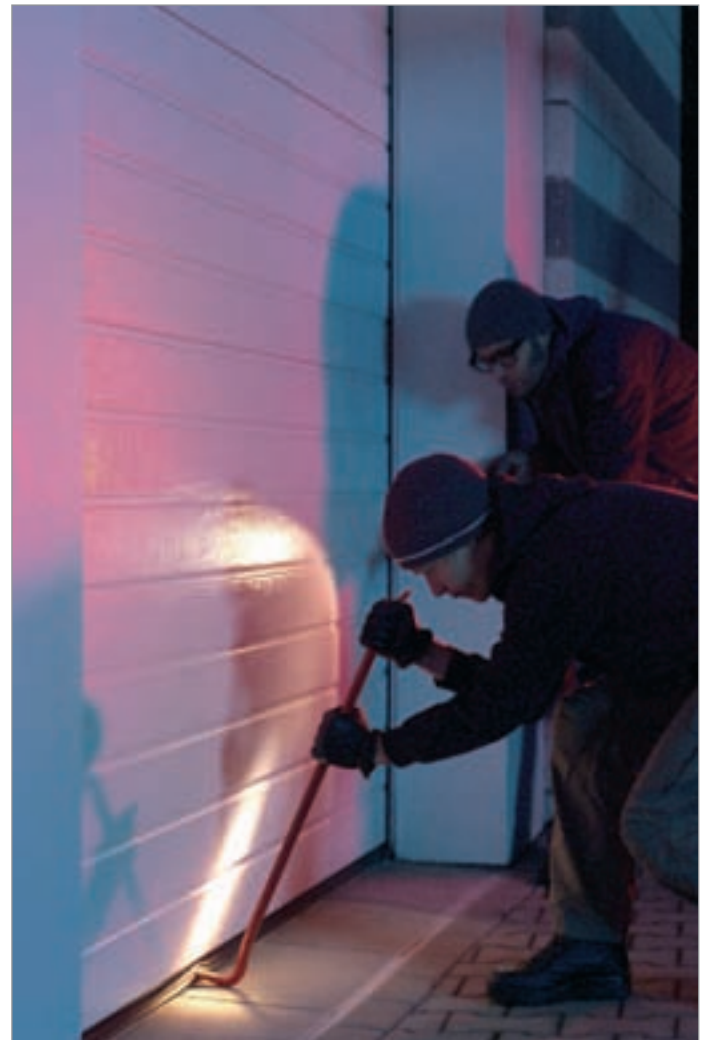
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Metal Technology delivers a high performance



Metal Technology System 4-35 Hi+ windows have been installed at Stoke's £22 million Ormiston Horizon Academy. System 4-35Hi+ High Performance thermally enhanced casement windows offer a wide and diverse range of profiles that will provide structural integrity, weather performance, thermal enhancement and security. The range is designed to aid compliance with the latest thermal requirements of the current building regulations. The

windows can achieve U values below 1.0W/m²K. Polyamide thermal break profiles have been designed to minimise heat transfer across the window profiles and work in conjunction with specially designed thermal gaskets and foam profiles.

028 9448 7777 www.metaltechnology.com

enq.172

SWA confirms fire safety



Seeking to ensure that steel windows are up to date to meet relevant safety and other regulatory requirements, the **Steel Window Association (SWA)** has had the fire performance of the systems re-validated under current European law. A new five year approval has been confirmed for the F Range, W20 and W40 steel profiles by the independent Exova Warringtonfire centre, and passed several vigorous and exacting fire integrity test to maintain the coveted BS fire

ratings. This allows specifiers and contractors to continue employing steel framed windows in potentially challenging situations such as to bring light into stairwells and escape routes around a variety of buildings including hospitals, secure institutions, education establishments and commercial premises.

enq.174

New brochure makes case for door closers



Samuel Heath has produced a brochure which comprehensively details the varied considerations involved in the selection and specification of controlled, concealed door closers. The brochure features the popular Powermatic® controlled concealed door closer as well as Powermatic® Free Swing, the latest addition to the company's door closer range. The 48-page document uses technical illustrations, computer generated imagery and photography to illustrate the legislation and performance standards

that apply to controlled and free swing door closers. The publication also looks at the many health and safety benefits that can be derived from both door closers.

0121 7664 200 www.perko-powermatic.co.uk

enq.176

SWA member tackles refurbishment



A member of the **Steel Window Association (SWA)** has improved the thermal performance and appearance of Bethnal Green Town Hall, by replacing over 150 old style steel windows. Although only a proportion of the original W20/Universal Suite frames had suffered corrosion, the client was

keen to upgrade to double glazing throughout. With sizes typically in the region of 1,400mm wide by 2m high, West Leigh produced like-for-like replacements at its premises, prior to installing the new units within the carefully surveyed openings. As well as hot dip galvanizing and modern weather-stripping, the new windows were glazed with 16 mm IG units featuring toughened low-E glass and Krypton gas filling to offer a centre pane U-value of 1.2 W/m²K.

enq.178

VBH launches greenteQ hardware catalogue



Hardware supplier **VBH** has launched the latest issue of the popular *greenteQ Window & Door Hardware & Ancillaries* catalogue. This is the biggest so far and includes all the greenteQ products launched during the course of 2013. These include stainless steel lever/lever and pull handles, the Sigma Compact door hinge, new Kappa Pony Tail and Doctor door knockers, Alpha inline sliding patio door handles, Clearspan hardware for aluminium bi-fold doors and more. All greenteQ products

are covered by a comprehensive 10-year guarantee with the exception of the Alpha 25 stainless steel door handle which, as the name suggests, is backed up by a 25-year guarantee. The catalogue can be obtained by visiting the website.

enq.173

Vicaima chosen for regeneration programme



Vicaima has been chosen to supply 520 doors to a £130 million regeneration scheme at Packington Estate. This major eight-year programme will replace 538 flats with 791 mixed tenure houses and flats. Vicaima is proud to be associated with this key regeneration project, particularly as the

whole build is meeting the Excellent Sustainable Homes Accreditation and Code 4 for Sustainable Homes. The company has supplied 400 primed paint grade doors and 120 Dekordor in oak finish. Specification of primed paint grade doors is a popular choice, especially in large projects where cost is a major consideration. Dekordor is a natural alternative to real wood veneer, and is the original alternative to moulded skin doors.

enq.175

School "delighted" with Yeoman Rainguard



Applefields School in York has transformed its appearance by replacing old and damaged plastic rainwater goods with **Yeoman Rainguard** aluminium gutters and pipes. With an attractive black textured finish, the 150 x 100 MOG gutters and 100 x 75mm downpipes have created a smart, professional appearance. "We are absolutely delighted with the way it looks," enthused Site Manager Tony Cross. The XL Aluminium range allows it to be successfully incorporated on both

traditional and modern buildings. Strong aesthetic qualities, ease of installation and value for money make it equally popular for many different applications such as schools, churches, supermarkets, offices and retail outlets.

enq.177

Energy efficient façade boosts Students' Union



A striking new identity has been given to the Students' Union building at the University of Sheffield using Aluglaze insulated panels from Sheffield-based architectural panel manufacturer **Panel Systems**. Polyester powder coated aluminium was specified in grey to provide a stylish exterior for the Students'

Union building. The new façade plays a major part in bringing the existing building up to modern standards of energy efficiency. Panel Systems supplied 260m² of aluminium faced panels, which will help to reduce the building's energy consumption and carbon footprint. This is due to the panel's insulating foam core, which means it achieves a U value of 0.17 W/m²K.

enq.179

Flurry of energy price rises set to fuel demand for insulation

Matthew King, UK and Ireland director of insulation firm Actis, says the need to cut spending on domestic energy, tightening legislation for new build energy efficiency and growing awareness of the DECC recognised performance gap all point to increased demand for well-behaved insulation

The massive energy price rises announced in recent weeks and news that costs will exceed inflation until 2030 are bound to spark an increase in demand both for retrofitting energy saving measures and choosing energy efficient new builds.

The heftier outgoings facing householders can be reduced in one of two ways – being colder or ensuring the heat they do generate stays in the building. The latter is clearly the more preferable option.

The size of the fuel price increase is likely to act as a catalyst to many homeowners who may otherwise have taken it on the chin.

With around 25 million houses across the UK, many of which are energy inefficient to a greater or lesser degree, the potential for reducing heating bills is vast. And with new builds starting to pick up pace – indeed we saw a 38 per cent increase in new homes registered in the spring and 19 per cent in the last quarter compared with the same periods in 2012 – builders are looking at ways of meeting and exceeding part L regulations.

With more than 100,000 new homes a year being built across the UK, the 2016 zero carbon target approaching and householder demand for lower fuel bills, the need to install insulation which performs as predicted is also likely to rise.

The government has acknowledged what has been known in the construction trade for some time – that there can be a vast disparity between the predicted savings promised by insulation materials and the actual performance once it's installed. This disparity is addressed by using materials which have been tested both in situ and in lab to ensure they behave as predicted.

In fact so vast is the performance gap that DECC has introduced an 'in use' factor to address the issue, details of which are published in its 20 page *How the Green Deal will Reflect the In Situ Performance of Energy Efficiency Measures* document.

In the booklet, DECC cites field trials carried out at Glasgow Caledonian University and its own National Energy Efficiency Data framework (NEED) analysis, which conclude that cavity wall and loft insulation performance estimates can be wrong by as much as 35 per cent.

'The government has acknowledged what has been known in the construction trade for some time – that there can be a vast disparity between the predicted savings promised by insulation materials and the actual performance once it's installed.'

Matthew King,
UK and Ireland director of
insulation firm Actis

Continued overleaf...





Under the DECC's golden rule, which states that the cost of any measures eligible for green deal funding will be outweighed by savings made, this 35 per cent calculation could be applied to finance given for the measure.

DECC adds that manufacturers who can come up with innovative ways of demonstrating that the real life behaviour of their materials matches the lab predictions could, in the future, have their in use factor adjusted.

With the average household dual fuel bill likely to rise by

'Making the fabric of the building energy efficient is better than spending time and money on other energy saving measures which can be tampered with by the occupants.'

£137 to £1,459 a year it doesn't take a rocket scientist to see that ensuring your home is efficiently insulated will be self funding within a matter of time, depending, of course, on the type of construction.

The building fabric plays an important and substantial part in determining the energy performance of a building. The philosophy of the insulation industry as a whole is fabric first - insulate not generate. This is a more cost effective and robust way of reducing carbon emissions and thus fuel bills.

Making the fabric of the building energy efficient is better than spending time and money on other energy saving measures which can be tampered with by the occupants.

Householders can fiddle with a low heating source house by buying an electric heater, they can influence the performance of energy efficient windows by opening them, and they can meddle with low energy lighting by replacing the bulbs with cheaper old-fashioned ones.

But it's unlikely they're going to rip the walls apart and remove the insulation. Improving U-values by insulating can make a considerable contribution towards the extra 6 per cent required by the new Part L regulations.

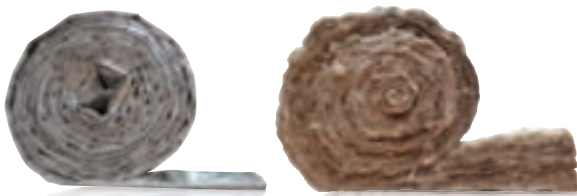
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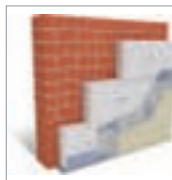


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EWI System assures thermal performance



Knauf Marmorit's Warm Wall Energy is an external wall insulation system that incorporates a tongued and grooved expanded polystyrene insulant that is simple to apply and provides assured thermal performance by eliminating the risk of cold bridging between joints. It is a multi layered system that can be applied to almost any substrate. Available in a range of thicknesses, it enables

U-values as low as 0.15 W/m²K to be achieved while providing a bright, durable, low-maintenance finish for any new build or refurbishment project. A wide range of components are also included: system fixings, starter tracks, boards for plinths and fire breaks, coated EPS profiles, joint sealant strips, render beads and trims.

0117 982 1042 www.marmorit.co.uk

enq.182

Pipe insulation gets LAB Registered



Kingspan Tarec has announced that its next generation Kooltherm® Pipe Insulation has become the only pipework insulation to hold LABC Registered Detail status. Kingspan Tarec submitted technical details and third party accreditation for Kooltherm® Pipe Insulation to the LABC. The application was rigorously assessed, considering all aspects of the physical and thermal properties, to confirm that the product complies with the building regulations in its particular end use application. Kooltherm® Pipe Insulation features a premium performance insulated core which achieves thermal conductivities as low as 0.025 W/m²K, allowing it to deliver the required performance with the least possible thickness.

01457 890 400 www.kingspantarec.com

enq.183

Monodraught donates and installs Windcatcher X-Airs and Sunpipes for Children in Need Little Miracles charity build project

In September, natural ventilation, daylighting and cooling specialist Monodraught supplied and installed free of charge a number of its natural ventilation and daylighting systems to the Little Miracles project as part of BBC's charity Children in Need, featured in the BBC One special programme *DIY SOS: The Big Build*. The systems were used as part of a life changing transformation to the centre for disabled children in Peterborough.

Little Miracles is a Peterborough-based, parent-led centre support group and charity for children with additional needs, disabilities and life-limiting conditions. Set up by Michelle King in 2010 after she was refused access on public transport because of her son Oliver's medical equipment, Little Miracles now helps 700 families and has over 2,500 children registered to use the centre. It quickly became a registered charity and a lifeline

to the many families that use it. A staggering 83 per cent of the families that use Little Miracles live below the poverty line, so all services are free of charge and, for many of the children that use the centre, Little Miracles is the only place where they are able to communicate freely, make friends, and most importantly – be themselves.

Built in just 10 days in September, the Little Miracles site was erected on a gifted 2½ acre site, which includes an old, run down concrete prefab. Monodraught's contribution was to supply and install three WINDCATCHER® X-Air 140 natural ventilation systems complete with an iNVent® fully-automatic control system, to provide natural ventilation to the Main Hall. In addition, nine 300mm diameter SUNPIPE® natural daylight systems were supplied and installed to serve the main corridor next to the 'living wall' and toilet areas.



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What is the RHI scheme?

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enq.186

ecoPANEL™ – A low cost energy saving heater



A new panel heater, being launched by **Orbital Enterprises**, is set to revolutionise the electric heater market. ecoPANEL™ heaters are a new slim-line solution for providing efficient room heating, with running costs as low as 2p per hour. Using convection technology, the heater manufactured from

a composite based cement material has many benefits over existing heaters. The heater has two heat settings (200W and 400W) and a built in adjustable thermostat. ecoPANEL heaters can also be installed in less than five minutes without the need for hard wiring and can be painted to match the decor of the room. The 545mm x 645mm and 12mm heater comes with a two year warranty as standard.

0845 486 8080 www.ecopanelheater.co.uk

enq.187

Dynamic valve system generates energy savings



Dynamic valve specialist **Frese** is now on its third generation of pressure independent control valves, a solution which ensures heating systems have the correct balance during operation and precise temperature control. The valves, because of their precise control, can lead to up to a 50 per cent saving on the energy a circulating pump consumes and also lead to a major reduction on energy bills for a buildings as boilers and chillers work more efficiently. The Frese system has been used for both small projects and large scale schemes such as the Athletes Village at the London Olympics.

enq.189

New DX under floor cooling range



AET Flexible Space has completed several projects with its new Direct Expansion (DX) under floor cooling range, from the Flexible Space Under Floor Air Conditioning System, and it has proved to be an effective solution to challenges frequently arising in the refurbish-

ment marketplace. The CAM R410A and R407C DX Coil can be matched with all the major manufacturer's two-pipe and three-pipe heat pump and heat recovery systems to supply an area of up to 300m² with conditioned air. The downflow units are available with AC or EC fan options and can provide variable supply air temperature and variable air volume according to the area requirement.

01342 310400 www.flexiblespace.com

enq.188

New versatile gas fire from Charlton & Jenrick



The new super-versatile **Paragon P4** gas fire from **Charlton & Jenrick** is a wide fire that can be installed in a fireplace surround or directly into the wall to create the perfect look. A very realistic flame effect is achieved from the modest 5.5kW input to offer economical running costs. Independently

verified high efficiency of 82 per cent to BS7977 ensures up to 4.05kW output is available to provide substantial heating capacity when required.

0845 519 5991 www.charltonandjenrick.co.uk

enq.190

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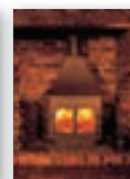


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enq.191

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192

Headache of low water pressure eased



Specifiers who need to solve the problem of low water pressure in new or redeveloped housing now have the option of an all-in-one unit that provides low noise levels, ease of installation and automatic commissioning. The e.sybox from DAB Pumps uses ergonomic design and cutting edge technology to bring a 'plumb and play' dimension to installation, saving time and money. It can be fitted vertically or horizontally on its anti-vibration mountings or onto a wall and can be plugged directly into the mains electricity supply. Once switched on, the unit automatically commissions, saving time, maintenance and hassle. Its award-winning design means the e.sybox will not look out of place wherever it is installed, and includes features like dry running and frost protection.

enq.193

Over and out...



Pentair Thermal Management has recently been specified to provide its Raychem Winterguard frost protection and HWAT water temperature maintenance system to 20 Fenchurch Street (The Walkie Talkie). Raychem's HWAT-R has been used to maintain the water at a temperature of

55° and 30 HWAT-ECO controllers were employed to ensure accurate temperature control. Frost protection on the exposed pipework on the rooftop is provided by Raychem Winterguard with Eco 10 controllers. Jon Jones commented: "Pentair's HWAT products were deemed to be the best systems for the job; they provided a flexible and economical solution, saved services space and ensured the efficient provision of instant hot water to all outlets."

enq.195

Grand Designs acoustic plaster



Oscar Acoustics' new extra smooth Oscar Elite acoustic plaster was chosen for a recent *Grand Designs* project in Holland Park.

With hard minimal surfaces like marble floors and plastered walls, echoing in space was always going to be an issue.

Oscar Elite was selected for its smooth appearance, incredible sound absorbing properties and ability to be locally and invisibly repaired, negating the need for expensive pre handover re-sprays. The space is now a relaxing place in which to spend time.

01474 854 902 www.oscar-acoustics.co.uk

enq.194

Amazing abstract tiles



Solus Ceramics present the eye-catching Abstract range, an intriguing collection of trendy graphic patterned tiles that will help you create imaginative designs for any project. The tiles are available in four distinct styles including geometric patterns, European motifs and a woven inspired mix. Echoing the textures found

in elegant fabrics, the magical effect of a kaleidoscope, Japanese tie-dye techniques and even architectural blueprints, the range is sure to inspire. Each style is represented by a number of different tile designs that are randomly supplied on order, which allows you to create completely original patchwork laying patterns.

0121 753 0777 www.solusceramics.com

enq.196

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enq.197

SAFETY TREAD
ANTI-SLIP STAIRNOSINGS

Altread is Safety Tread's range of highly non-slip insert strips and insert discs. Not only are they highly slip resistant but they also provide the capability of introducing a different design element to your staircase.

The **Definer** range was specifically developed with DDA in mind. The non-slip areas are filled with Safety Tread's Carborundum, a product that gives you and your visitors peace of mind as it offers some of the highest non-slip properties available in the market place for dry, wet and greasy conditions.

The **INTREAD** range of profiles has been designed for general-purpose use on interior stairs. There are many profiles available for this use, however this is the only product currently available that has been filled with Carborundum on the tread, instead of PVC or rubber.

Glo Tread allows your interiors/exterior stair nosing or insert strip/disc, to illuminate for over 12+ hours after being exposed to a light source for only 10 minutes and requires NO ELECTRICITY!

The **Glo Tread** product is a highly luminous material that also offers exceptional slip resistant properties. It can be used in any of our aluminium profiles and can be combined with Carborundum colours from our standard colour range.

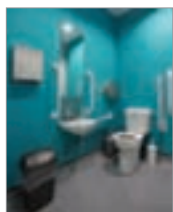
ALLITE is our range of excellent slip resistant stair nosings and treads for internal and external use.

Safety Tread (part of Bell Plastics Ltd) will meet your stair nosing requirements with a bespoke solution, filled in your desired colour. For more information, please visit our website or call us now on:

Sales: 01202 625596 www.safety-tread.co.uk

enq.198

Chesterfield FC picks Franke Sissons



When Chesterfield FC Community trust, which works with children for both sports coaching and football based education projects, commissioned the new Spencers Solicitors Community Stand at the Proact Stadium, it selected Chesterfield's own Franke Washroom Systems from Franke Sissons for its 10 new washrooms, comprising of 10 WCs and 10 inset stainless steel basins with complementing taps and accessories. John Croot, community director, said: "The company has 200 years of stainless steel manufacturing history in Chesterfield so they were an obvious choice. Everyone who visits the new Spencers Solicitors Community Stand will use the facilities so they have to look good, perform well and last."

enq.199

Maxwood Washrooms assist in colour therapy



Combining HTM-compliance with ease of installation and ongoing maintenance, Maxwood's Maxwall HTM self-contained duct panelling system was the clear choice for new patient washrooms at Leicester's Bradgate Mental Health Unit and Bennion Centre. Maxwood manufactured around

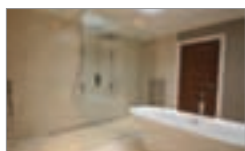
180 Maxwall HTM ducting units and complementary cubicles from its Marin range for the hospital's new acute ward and two existing wards. Maxwall HTM complies with Health Technical Memorandum (HTM68) for ducts and sanitary panel assemblies in health buildings. The self-contained system makes running of pipework and mounting of sanitaryware quick, easy and secure.

enq.200

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enq.201

CCL Wetrooms' innovative drainage solutions



CCL Wetrooms, a leading wetroom specialist in the UK, has extended its popular Linear Screed Drain range to include a new wall drain option, which offers architects and specifiers a sleek, contemporary finish to wetroom installations. At a market leading height of only 67mm, the drain

ensures that even the highest of water flow rates can be achieved and managed effectively on concrete floors, which are widely used in the construction of modern houses. With one of the shallowest traps available in the UK, the Linear Screed Drain is ideal for the upper floors of a building where the insulation and concrete screed is much shallower in depth than the ground floor foundations.

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

enq.202

Ellis Furniture launches Reflection Gloss Maize



Continuing this season's launch of new bathroom products, Ellis Furniture has launched Reflection Gloss Maize with the new centre wave worktop. Featuring a 22mm lacquered handleless door, Reflection is available across the entire fitted and modular cabinet offer. Shown here with reduced depth modular units and a glass centre wave worktop, the

effect is simple, stylish and contemporary. The new centre wave worktop offers subtle on trend curve appeal and is also available in solid composite and two sizes of 1,200mm wide and 1,400mm wide, offering great design flexibility.

01484 514212 www.ellisfurniture.co.uk

enq.203

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enq.204

Kaldewei – Hub by Premier Inn



When guests enjoy a shower in the new 'hub by Premier Inn' hotels, it will be with a Duschplan shower surface from Kaldewei, made from precious 3.5mm steel enamel. Designed as a new generation of compact, city centre hotels, the first hub by Premier Inn will open in London in autumn 2014. Comfort and style are assured thanks to ingenious, contemporary room design and excellent electronic connectivity. Duschplan is a classic shower surface from Kaldewei with a

comfortable depth of 6.5cm. Available in a wide range of sizes, a bespoke model was created to perfectly suit the layout of the hub by Premier Inn bathrooms.

01480 498 053 www.kaldewei.co.uk

enq.205

New ceilings guide from Armstrong



A complete guide to its portfolio of wood systems has been launched by **Armstrong Ceilings**. The new brochure has been introduced to help architects and interior designers select from an extensive range of statement tiles and systems designed to combine a natural and luxurious look and feel with

high-performance building linings. It also offers advice on support services available and how the systems are best installed. The new brochure details the wood styles available: veneer for a high class solution, laminate for a durable and more affordable option, and even wood-effect lightweight metal. All the real wood systems are manufactured from high quality MDF derived from natural woods.

01895 251122 www.armstrong-ceilings.co.uk

enq.206

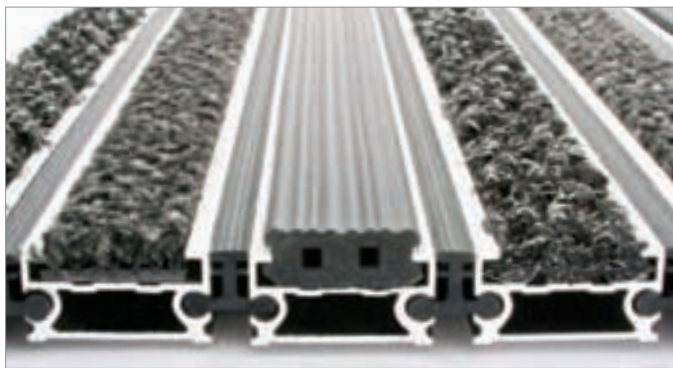
RENOLIT announces ALKOREN Thermo



RENOLIT Cramlington Ltd has proudly announced the introduction of a new oak design, Thermo, into the RENOLIT ALKOREN 3D stock range. Thermo is a blackened oak with finely grained areas to give a charismatic and sophisticated design. It is produced using a refined ash emboss which gives a sleek grained texture, enhancing the overall well-finished look of the design. Two versions of Thermo are available. Thermo A is a black brown oak with red undertones to create a charismatic and sophisticated design. It is matched to Egger's MFC reference H1199. Thermo B (pictured) is a slightly browner colour effect tinged with a lighter golden hue. RENOLIT ALKOREN presents a classic collection of woodgrains and solid colours. All the major woodgrain species are available in a range of shades and tones. Choose between oak, beech, maple, cherry, as well as exotic timbers, and fashionable fruitwoods. A wide range of solid colours covers the whole palette, from light to dark and vibrant to subtle. RENOLIT COVAREN, the second brand of the company's 3D stock range, contains the company's premier 3D films. Realistic woodgrain prints are almost indistinguishable from real wood. The range of solid colours contains metallic effects as well as matt finishes. Superb high gloss films are available in a variety of colours and brilliant decors.

01670 718 122 www.renolit.com/design

enq.207



COBA moves Plan.a manufacture in-house

COBA Europe has recently moved the manufacture of its Plan.a aluminium entrance matting to its own facility in the UK, bringing a multitude of benefits to customers. The system, which is custom made to individual specifications, can now be produced to COBA's own high quality standards and delivered in shorter lead times. This means that Plan.a can be more competitively priced in the aluminium entrance matting market, with the added advantage of efficient UK based sales support. Plan.a is an adaptable, heavy duty aluminium entrance matting system. It is ideal for entrances with high volumes of footfall. There is a choice of surface material options in either an 'open' or 'closed' construction. One style, or a combination of insert styles are available, including Atrium Nylon carpet, Needle-punch carpet, or ribbed PVC. COBA offers an on site templating service with FITA trained personnel to ensure precise specification during the ordering stage.

0116 240 1088 www.coba-europe.com

enq.208

Community centre open for all



Southampton City Council, in partnership with Woolston Community Association, has funded refurbishment and extensions to the area's Community centre to provide facilities for local people and a new venue for the council's adult day services. This includes a Changing Places accessible toilet supplied and installed by **Clos-o-Mat**. The Changing Places toilet has a height adjustable, adult sized changing bench, hoist, height adjustable washbasin, and

Clos-o-Mat Palma Vita 'wash and dry' (automatic) toilet with a touch sensitive switch. The Clos-o-Mat can be used as a conventional toilet but also can wash and dry the user after toileting, thus improving hygiene, independence and dignity.

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

enq.209

Gerflor helps Children in Need project



International vinyl and linoleum flooring specialist **Gerflor** was able to help an outstanding charity project in aid of BBC charity Children in Need. The company donated Tarasafe™ safety flooring in poppy red and sky blue colours to the Little Miracles' Project as part of the BBC One special programme *DIY*

SOS: The Big Build with Children in Need. The flooring was laid in the toilets as part of a life changing transformation to the centre for disabled children in Peterborough. Gerflor Marketing Manager Nav Dhillon said: "Little Miracles does an outstanding job and we were just happy to help in any way we could."

01926 622600 www.gerflor.co.uk

enq.210

Tarkett announces phthalate-free technology



Tarkett, a worldwide leader in innovative flooring and sports surface solutions, has announced its decision to use phthalate-free plasticisers in its vinyl flooring production in Europe in 2014. As part of Tarkett's commitment to greater sustainability and

eco-innovation, these new phthalate-free products

have been designed to improve indoor environment and air quality. The phthalate-free plasticisers selected by Tarkett are approved for food contact containers and can be used for toys intended to be placed in the mouth by children. Tarkett has also set a high industry standard by eco-designing all its products to have low or extremely low VOC emissions, thus contributing to better indoor air quality.

01622 854040 www.tarkett.co.uk

enq.211

Ambassador Matt White: The superior choice



Focus SB's bespoke Ambassador plate with rounded corners sits flatly on the wall and, with its matt finish and curves, softens an interior. It facilitates modern media demands by catering for the precise electronic use of a room. Any composition of high quality Wandsworth insert can be held on the electrical face-plate including

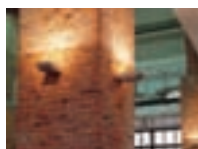
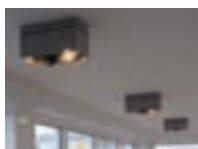
USB, audio visual and data entry points. If you are looking for an extra edge, the Ambassador, with guillotined corners, is a sharp choice. For a softer finish, rounded corners are available. The British made product is available in any of Focus SB's metal finishes including primed and painted to match any RAL colour.

01424 858060 www.focus-sb.co.uk

enq.212

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Lighting catalogue with style shots available on request

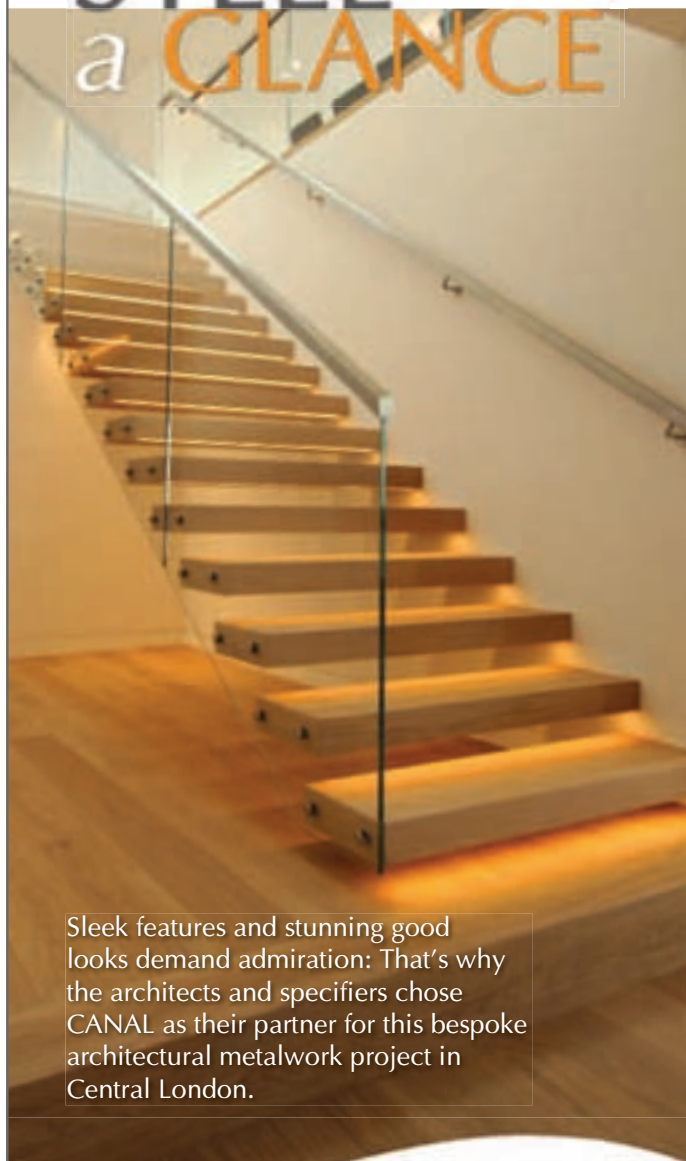


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enq.213

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Sleek features and stunning good looks demand admiration: That's why the architects and specifiers chose CANAL as their partner for this bespoke architectural metalwork project in Central London.

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enq.214

In the experience of light

Hotel guests rate their experience with both head and heart. Lighting influences both, so its effect on your client's repeat business and online reviews is more profound than you might imagine, according to John Fearon managing director of Astro Lighting

'Lighting, like nothing else, can set the scene and raise the tone'

Beyond the statement piece which adorns the lobby, there are endless opportunities to delight or disappoint hotel guests with lighting.

Corridors are all too often a low point. This is a difficult space to make personal. More than any other area it emphasises the building's functionality. To breathe life back into the corridor, avoid ceiling lights. Look instead to create light and shade which brings interest and atmosphere.

Wall lighting works well, but is best kept as flush as possible with the wall to avoid knocks. Wall lights can also offer the pleasing effect of up- and downlighting with the same fitting. Tall, linear luminaires provide attractive illumination and can have a dramatic effect in a lengthy corridor. Then add marker lights at skirting level to throw light across the floor as a further enhancement. Illuminated door numbers will complete a scene-changing lighting scheme.

Too dark in the bedroom

A criticism often levelled at hotel bedrooms is that they are too dark. In an effort to create a relaxing ambiance (or possibly mask shortcomings in décor), lighting is often at the subtle end of the spectrum. This is fine when the guest is having a nightcap from the mini bar or watching TV, but not so helpful when they are hunting in a suitcase or scouring the floor for a dropped contact lens.

Hotel bedrooms should be lit in layers. Start with downlights for the effective, functional illumination which hotel rooms often lack. For the next layer, table and floor lamps provide

mood lighting as well as task lighting for use of the desk or reading during the day. Finally LED reading lights fitted to the bedhead allow pinpoint illumination for reading in bed without disturbing a partner who may be sleeping. It also provides low-level illumination for night-time bathroom trips, or for an early-riser whose partner wishes to sleep in. Another layer for a really comprehensive scheme is marker lights, possibly around the bed base, for an impressive post turn-down effect, night-time navigation and sensuous mood.

Switching is all important in the bedroom. All permutations should be controllable from the bedhead. The frustration caused when the only switch for the ceiling lights is over by the door is likely to outweigh any saving in wiring.

Bathrooms – from acceptable to stunning

In bathrooms, careful thought given to lighting can transform the space from merely acceptable to stunning.

The first rule of bathroom lighting is to ensure proper illumination for the face. Downlights have their place in the bathroom, but without supplementary lighting adjacent to or combined with the mirror, downlights leave unflattering shadows on the face. This causes a sub-conscious 'feel bad' factor, which will not endear the establishment to the guest.

While illuminated mirrors are a great feature in a domestic bathroom, they come in fixed sizes, which is not ideal for hotels. Fortunately there are endless options for pairs of luminaires





which fit either side of any size of mirror. Go for slim, vertical lights for a pared-down, sophisticated effect, or a more gas-lamp style fitting if the look is more traditional. With an adapter kit, mirror lights can be fitted on the mirror surface, which has a great visual impact. A welcome extra touch for shaving and make up is an illuminated magnifying mirror.

To enhance the mood further, flexible LED strips in shelving and marker lights in the floor, at skirting level or beneath the bath panel create a bathroom which is an experience rather than just a facility.

Make the outdoors great

Whether or not the weather is conducive to sitting outdoors, any patios, decking or terraces should look inviting. It can be as pleasant to look at a well-lit outside area as to be in it. Marker lights for steps and hazards have a practical function, as well as adding atmosphere, so are ideal. Remember to light the outside of the building, too. Even if the hotel has limited aesthetic appeal, a wash of light up the walls can add transformational interest and drama.

Practicality is a serious consideration for hotels. The luminaires throughout should of course function well and be sufficiently robust to handle the heavy use and heavy-handedness to which all hotel fittings are exposed. But hoteliers will be even more impressed if the light fittings specified are maintenance-free as well as durable. Choose LEDs and it really should be possible to fit and forget.

The benefits of intelligent lighting schemes will far outweigh any extra costs in fittings and switching. And in many cases it is a question of choosing and placing luminaires more thoughtfully rather than necessarily paying more. Lighting, like nothing else, can set the scene and raise the tone. In a hotel where guests arrive laden with expectation, what could be more important?

enq.215



Linea CFX® Collection

The Linea CFX® range has five different frame designs, to suit either contemporary or classic interiors. The separate frame and concealed fixing front plate allows you to match or contrast the stunning finishes available.



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enq.216

Residential Safety updated



The latest issue of *Residential Safety Update*, which looks at in depth issues surrounding fire and carbon monoxide safety, has been published by smoke, heat and CO alarm manufacturer Kidde Fyrnetics. The growth of regulations demanding carbon monoxide alarms is studied, along with initiatives by Red Kite Community Housing and Glasgow Housing Association. Alongside news and case studies, it also showcases the latest Kidde developments with smoke,

heat and CO alarms. New information is reviewed with online videos covering wireless smoke/heat alarm installation and carbon monoxide issues, as well as an updated edition of Kidde's comprehensive *Fire & CO Safety in Housing* Guide.

www.smoke-alarms.co.uk <http://tinyurl.com/ljw454f>

enq.217

PEL Services designs sound system for library



PEL Services Ltd has completed the design, supply and commissioning of a public address (PA) and voice alarm (VA) system at the new £188 million, 31,000 sqm Library of Birmingham. A flexible PA/VA system was required, able to relay both information and safety messages and to also play music when and where required, with clarity across the entire library. PEL specified Bosch's Praesideo digital system as, unlike traditional PA systems, Praesideo

uses a network configuration rather than having all system elements connected to a central controller, giving real freedom in system design. The 'daisy-chain' network topology means system elements can be connected to virtually any point and any type of equipment to be located wherever most suitable.

enq.218

Sentrii Pro gate locks



Sentrii Pro gate locks, from **Signet Locks**, are a professional and stylish range of gate locks designed and built in the UK.

- Providing simple, convenient and effective solutions for locking gates
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- Detailed instructions and fitting details available
- Never compromise security for convenience, use Sentrii Pro

01243 552066 www.signetlocks.co.uk

enq.219



Berry Brisafe System at East Marketgait

Berry Systems' innovative Brisafe wire rope safety barrier has been installed at the new, 500 space East Marketgait car park in Dundee. It serves the new leisure centre which is part of Dundee City Council's multi-million pound redevelopment of the city's waterfront area. The Berry Brisafe perimeter protection system is ideal for new build car parks. It features three lengths of wire rope anchored under tension to the car park structure. These ropes are then fitted with in-fill panels which can be colour coordinated to almost any specification. Following an impact, the damaged in-fill panel can be removed swiftly and replaced. The wire rope elements are fully reusable. With a zero footprint in the parking bay, Brisafe creates a very practical and visually attractive perimeter barrier that combines an independently tested safety performance with architectural flexibility to enhance the appearance of the whole structure. As well as nearly 700m of Brisafe, Berry Systems also installed 1,000m of traditional vehicle safety barriers featuring their flexible spring steel posts and Flexi-Posts. These provide protection at split levels, exposed perimeters and for vulnerable walls.

01902 491100 www.berrysystems.co.uk

enq.220

New EN54-11 approved manual call points



Apollo's new collection of EN54-11:2001 compliant manual call points has been designed and manufactured exclusively in-house by the company's team of experts, engineers and technicians. Currently available in XP95, Discovery and Waterproof variants, the call points feature a convenient resettable element for quick and easy testing. The products are also loop-powered and feature E-Z fit connectors to reduce and speed up wiring requirements, and have a continuity link to allow system wiring and testing prior to call point connection. Customers can choose whether to have an isolator included with the manual call points, which would eliminate the need for additional, separate isolation devices; isolator versions are also EN54-17 compliant.

enq.221

Leading the way in window restrictors



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. To address these safety requirements the company produces a variety of products for either face-fix or concealed applications, available as standard non-locking devices, through to the highly specified range of Res-Lok auto-locking, auto re-engage restrictors, all available with the latest Hold-Open arm option. The J.Banks range of restrictors are available in a plated finish and White or Brown powder coated finish.

enq.222

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newsletter

Emailed on a fortnightly basis the Architects Datafile newsletter is designed to provide the architect with the latest information on products and services of interest, direct to their inbox. The reader can quickly gather a snapshot of information from 12 carefully selected companies and easily follow links through to further information on the www.adfonline.eu, or go direct to the company's own website. Brochures and videos are also regularly available.

www.adfonline.eu – register now

GRPlite help bring Roman history to life



Specialist glass reinforced plastic (GRP) engineers GRPlite, part of the JR Boone engineering group, have worked with The Vindolanda Trust on Hadrian's Wall and Scottish architect Andrew Hamilton to recreate a 50m section of an ancient aqueduct. They used in-house CAD facilities to create the design and mould from an actual Roman stone, and

finished the surface to appear as the aqueduct might have done when new. The sections were supplied in 2m sections for simple installation.

01260 272 894 www.jrboone.com

enq.223

SuDS at school



The trade association Interpave has published a case study exploring how a new, award-winning Kidderminster school takes an exemplary approach to sustainable drainage, with a SuDS scheme, incorporating concrete block permeable paving. Robert Bray Associates' SuDS and landscape scheme had to resolve complex drainage issues, including the absence of any 'safe' exceedance route from the site, as housing occupies the natural route. It utilises several SuDS

techniques, including concrete block permeable paving, within a fully developed management train. This, and other case studies can be downloaded via the Interpave information resource on the Interpave website.

0116 232 5170 www.paving.org.uk

enq.224

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"When we design a platform lift we think of it as a vehicle for vertical transportation. It must be beautiful and a joy to use".

enq.225

Passengers arrive two by two at Twycross Zoo thanks to specialist bus kerbs



The expertise of **Brett Landscaping** in providing kerb solutions for buses has been instrumental in the redevelopment of the coach drop-off point and waiting area at Twycross Zoo. The zoo completed an overhaul of its parking facilities in 2010, including a new drop-off area for coaches made up of six dedicated bays. "After researching the options available, we decided that the Kassel Bus Boarding Kerb from Brett Landscaping represented the ideal solution for us – and our customers," explained Estates Manager Louise Bhara. Kassel is designed to allow coach and bus drivers to position their vehicles close to the kerb, and in many cases leaving a gap of below 40mm for fast, safe and easy passenger access. Its safety and convenience over conventional kerbing makes it beneficial for the disabled and visually impaired, while its unique design makes it popular with the fleet operators as it minimises wear and tear on vehicle tyres. The designers then sought to complement the use of Kassel and reinforce visitor safety within the drop-off zone at the zoo by also using another Brett Landscaping specialist kerb system, the Trief Vehicle Containment Kerb. The unique design profile of Trief, which has been well proven in over 50 years' service on Britain's roads, acts not only as a visual deterrent to drivers but can also help to redirect vehicles away from the kerb and therefore away from pedestrians.

enq.226

Signbox respond to Skype call for digital glazing graphics



Signbox has successfully completed an extensive signage project for the stylish new London offices of Microsoft subsidiary Skype that now occupy 90,000 sq ft over three refurbished floors of Waterhouse Square, Holborn; the gothic landmark considered one of London's most distinguished buildings. Signbox worked in close partnership with RAW Unlimited, the brand and environmental graphic designers, to print over 1,000 sq metres of optically clear Lintec film that provided manifestation across all the glazed partitions and doors. Produced in-house utilising their Durst Omega 2 technology, the digital glazing graphics created privacy screening while still maintaining a light and airy feel to the spaces. Importantly, the manifestation had to work with Skype's AV technology, by blending the dot pattern in critical areas for each and every room. Signbox even incorporated the famous emoticons within the design; a quirky twist in keeping with what is essentially a fun building. Each of the three Skype floors are organised and named by theme: British bands, products and people. Signbox laser cut acrylic signage and produced a range of bespoke wayfinding icons, designed specifically by RAW, to assist with the multi-lingual Skype team.

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