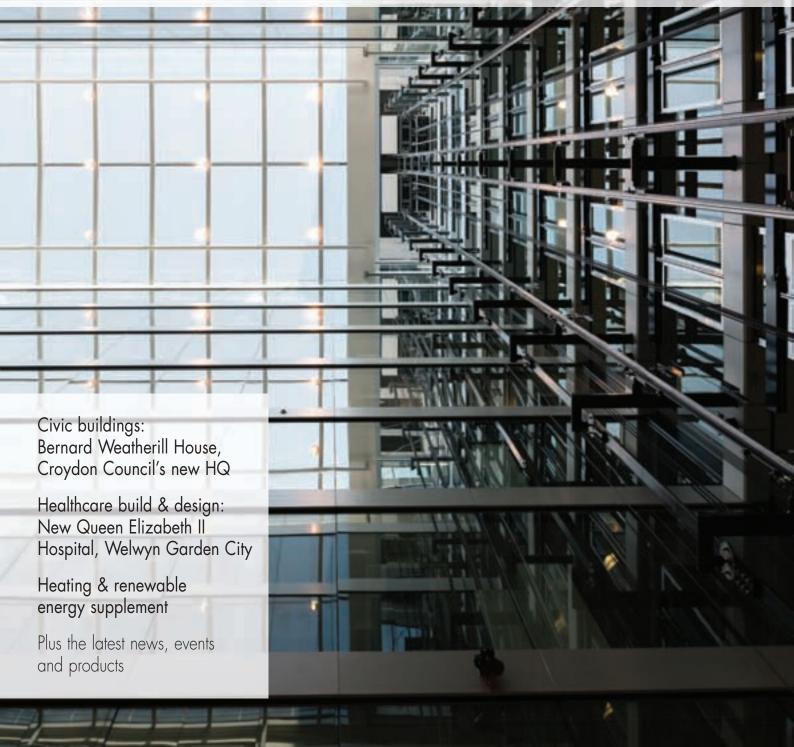
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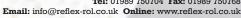
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contents november 2013





projects

26 | Speaker's corner

An energy efficient, new headquarters named after a former parliamentary speaker has brought Croydon Council closer to its public, Mark Smulian reports

Prognosis is a long and useful life for garden city's new hospital

The New Queen Elizabeth II Hospital must fulfill a different role in a health services shake-up, play its part in a national scheme to design buildings for future climate change and stay true to the legacy of town planning visionary, Ebenezer Howard. Jess Unwin reports

atures

GROUNDWORKS: FLOOD CONTROL

Flood mitigation for the future, today

Innovations in flood mitigation have come a long way since the humble sandbag and intelligent passive solutions for our future are now out there. Katherine MacBeth, marketing executive at UK Flood Barriers Ltd, offers an insight

49

41

EXTERNAL FIXTURES: GLASS & GLAZING

Features and benefits of structural frameless glazing

Structural glazing has become more prevalent in cross-sectional architecture and building in recent years but what exactly is structural glazing? Rebecca Clayton, technical sales executive at IQ Glass, explains more

65

INTERIORS: OFFICE AND CONTRACT FURNITURE

Furniture for modern office environments

By Tony Flint, KI product development manager

69

BATHROOMS & WASHROOMS

Regulating washroom design

Designing a commercial washroom is about more than just aesthetics, as Andrew Taylor of Maxwood Washrooms explains in his guide to some of the key regulatory requirements surrounding the design of sanitary facilities to suit all user groups

news & events

Industry News

11 Events

14 CPD Focus

HEADLINES

British architects had their best quarter so far

The British Homes Awards 2013 winners announced

Plan to revive Canal Basin wins RIBA Forgotten Spaces top prize of £5,000

22 Editor's Focus
53 Heating & Rer

Heating & Renewable Energy Supplement

Appointments & News

Planning & DesignGroundworks

43 Structural Elements

43 External Envelope

(Incl. External Fixtures)
52 Insulation

62 Heating, Ventilation & Services

63 Interiors72 Safety & Security

73 Landscaping & External Works

75 Classified & Directory



Cover intage, benial of Veatherill House, © London orough of Croydon ee page 26 for details

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Annual subscription costs just £48 for 12 issues, including post and packing. Phone 01435 863500 for details. Individual copies of the publication are available at £5 each inc p & p. All rights reserved

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RENEWARI E ENERGY



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Planning by numbers: wind turbines

As political controversy continues to surround energy company pricing and the role of renewable energy subsidies, **Planning Pipe** looked at the number of wind turbines submitted into the planning pipeline over the last 12 months.

5,000 the number of new wind turbines

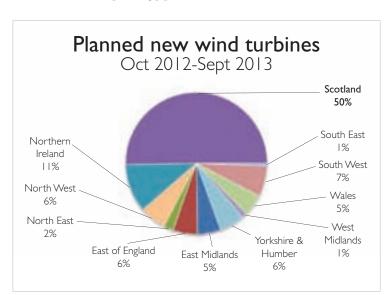
114 miles the total height of new turbines

38 the average height in metres of each turbine

0 the number of new onshore wind turbines planned in London (1 replacement)

400,000 households that could be powered by the new turbines – if approved

1 the number of nuclear power stations providing equivalent power output



Source: Planning Pipe: providing bespoke planning data to the UK construction industry

enq. 601

British architects had their best quarter so far

In Q3 2013 almost 60 per cent of the British architects saw increasing order books, marking the best quarter for the UK market since 2008. Italy had a very difficult quarter again, while France and Spain show slight indications of improvement. For the first time in two years more than 30 per cent of the Dutch architects reported growing order books. Germany is still offering the best market conditions. 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 UK has been showing a clear recovery during the last six quarters and especially during the last nine months. In Q3 2013, the British market keeps on improving. This quarter is marked by a strong positive order book and turnover development. More than half of the architects (59 per cent) reported to have experienced increasing order books in comparison with Q2 2013. The share of those with still declining order books has shrunk significantly to the lowest ever measured by Arch-Vision, 13 per cent. The British market is on the right track and the recovery is getting more stable with every quarter being better than the previous for a larger part of the architects. Despite the obvious improvement, the number of architects expecting an empty order book in the next 12 months is the same

as in the previous quarter: 27 per cent. Arch-Vision predicts a 2 per cent rise of the market in 2013 and an increase of 1 per cent in 2014 and 2015.

These and many other results and trends of the developments of the European construction market can be found in the European Architectural Barometer, an international market research conducted among 1,600 architects in Europe. This study is conducted in Germany, France, Italy, Spain, UK, the Netherlands, Belgium and Poland by Arch-Vision four times a year. Besides indicators to forecast the European building volumes, a specific topic is highlighted each quarter. The topic in Q3 2013 was sustainability. Architects can be used not only as a reliable source for future building volumes information, but their role is very important as they have great influence on how projects are built and which materials are used.

Architectural award winners announced

The winners of the European Copper in Architecture Awards 16 have been announced at a presentation ceremony held on 4 November, during the international BATIMAT show in Paris. With a record 82 entries, the 2013 Awards proved to be a celebration of the very best in contemporary architecture and the judges were impressed by the high standards demonstrated generally. Images and information about the winners and all the entries can be found at: copperconcept.org/awards

Four Awards were made from 10 shortlisted projects. The outright winner was Platform of Arts and Creativity, Guimarães, Portugal – designed by Pitágoras Aquitectos. This regeneration of the ancient centre of one of Portugal's most historically important cities is defined by unifying abstract cubic forms, veiled by a grid of brass profiles that dematerialises the building's mass, adding an extra, translucent dimension.

The design is a confident response to the challenges of working within a UNESCO and City of Culture site. Pulling together a diversity of old buildings, the regeneration gives a new civic heart to the city – looking to the future as well as the past. The design takes a clever, fresh approach and, of all the entries, this is the one that all the judges most want to visit and explore.

Three commendations followed. Designed by JKMM Architects, Seinäjoki City Library, Finland, is an assertive but respectful copper-clad, thoroughly contemporary addition to the most extensive cluster of Alvar Aalto buildings in the world.

NOBEL arkitekter's Covering of the Runic Stones in Jelling, Denmark, comprises deceptively simple, bronze and glass structures, protecting nationally important ancient stones.

With Plasma Studio's Dolomitenblick apartment building in Sexten, Italy, copper and timber define the sculpted mass



growing out of the natural Alpine topography and reflecting traditional roof forms, redefining the local vernacular.

This year's judging panel consisted of four architects – all recipients of previous Copper in Architecture Awards: Einar Jarmund (Jarmund/Vigsnæs, Norway); Craig Casci (Grid Architects, UK); Davide Macullo (Davide Macullo Architects, Switzerland); Anu Puustinen (Avanto Architects, Finland).

Visit adf-news.blogspot.co.uk and enter reference number 80539 to view more information.

Platform of Arts and Creativity, Guimarães, Portugal, designed by Pitágoras Aquitectos (above) as desiñajoki City Library, Finland, designed by JKMM Architects (below)







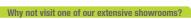
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Arup Foresight + Research + Innovation launches future-gazing report:

Museums in the Digital Age

Arup Foresight + Research + Innovation has launched a report *Museums in the Digital Age*, which envisages a dynamic future for museums. Moving beyond static objects in glass cases, future museums will see personalised content, new levels of sustainability and visitor experience extended beyond present expectations of time and space.

The report recognises that museums now have to cater for increasingly disparate visitor groups from an aging population through to the Facebook generation, as well as an expanding global middle class which will give rise to a mass cultural boom. Through investigating the experiential requirements of each, the report suggests a number of changes to future museum design and investments including:

- Immersive experiences: tablets and social media now meet basic expectations. Innovations such as contact-less technology, augmented reality and face-recognition software will become integral to capturing the imaginations of all visitor groups and to enhance the physical experience. Innovations such as advancements in 3D printing will also enable the accurate reproduction of rare, damaged or previously unavailable objects and their exhibition in multiple locations. Additionally, visitors could even have the option of creating a copy of the artifact to take home.
- Nomad museums: museums and the content they exhibit no longer need to be fixed to a certain point in space and time. Mobile museums, combined with digital access to collections, will reach a wider demographic, shifting the notion of where and how museums can exist in the future.

Sustainable and open spaces:
 museums will feature smart controls
 and sensors to manage water, heating
 and cooling systems more effectively.
 However beyond this, climate change
 will affect the design of museums and
 their contents, with a shift towards
 the preservation and archiving of
 threatened living elements alongside
 alternative food cultivation systems
 such as hydroponic farms.

'By giving museums visibility of the changes affecting their industry, we hope to inspire their development to better meet the experiential demands of their visitors'

Josef Hargrave, senior analyst, Arup Foresight + Research + Innovation

Museums will also have a responsibility to place emphasis on visitor wellbeing and encourage green forms of mobility and environmentally friendly practices.

Future scenarios: museums as retreats, safe havens and political ambassadors

The report concludes with a number of future scenarios in the year 2040, envisioned by students on the Narrative Environments course at Central Saint Martins College of Arts and Design in London, who were mentored by the Arup Foresight + Research + Innovation team. Built on existing social and environmental

trends, these provide drastic visions of the museum's role in the future. One such scenario includes museums functioning as a temporary retreat from future 'mega-cities', with vegetation helping to regulate environmental toxins. In this future, Kew Gardens will have a dual role as a research centre and visitor attraction, becoming a driving force in the development of functional plants.

Another envisages transient museum experiences, where objects are showcased on trains as they are returned back to their country of origin. Plugging into mass transit systems, the scheme presents the museum with an alternate business model, as a travel and tourism guide and international affairs ambassador. In an increasingly globalised community, a move to deliver artefacts back to their country of origin, exemplifies cultural awareness. With heightened political uncertainties, this gesture can ease political tensions.

Josef Hargrave, senior analyst, Arup Foresight + Research + Innovation commented: "It is a common misconception that museums are designed to house objects. In actual fact they are designed to give visitors an experience, and just as our tastes in fashion and food change over time, so do our tastes in experience. Like any business, it is essential that museums understand their target markets' preferences and respond to these.

"A number of Museums are already showing a desire to expand their offering. The opening of the Tate and the V&A Museum for live events, late nights and after-work hours for example, has seen them benefit from new revenue streams and engage new demographics. By giving museums visibility of the changes affecting their industry, we hope to inspire their development to better meet the experiential demands of their visitors."

news bytes

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CIBSE's lecture highlights importance connectivity & data can play in 'Innovating for the city of the future'...

Ref: 91977

Green spaces can have a massive social and economic value according to new report... Ref: 34348

Making it happen: TCPA sets out next steps for Garden Cities campaign...

Ref: 17805

South West Energy Centre offers unique learning environment... Ref: 82219

Transforming
London's Royal Docks
with water sensitive
urban design – design
competition is
announced...
Ref: 77905

BDP appoint George Smith as town planning consultant... Ref: 17242

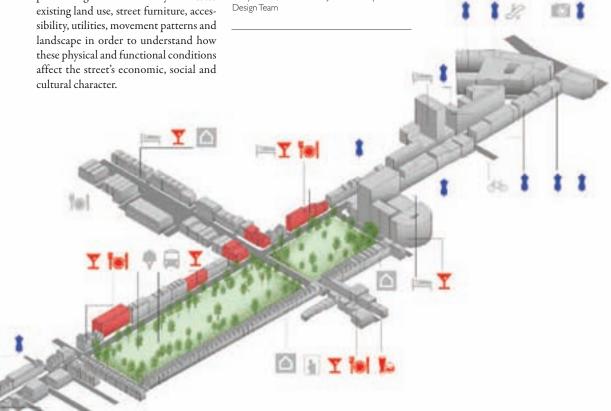
John McAslan + Partners wins Sloane Street commission

John McAslan + Partners has won a prestigious commission from Cadogan Estates to carry out an initial feasibility study and strategy that will develop a new vision for Sloane Street.

Working with Space Syntax, who will support masterplanning and design ideas with evidence-based urban design analysis, the intention is to unlock the potential of this high profile but underperforming street. The study will assess 'Our aspiration is to develop a physically attractive and commercially effective public realm strategy that will reinforce Sloane Street as one of the world's premier retail destinations'

Andy Harris, Head of the JMP Landscape

Hugh Seaborn of Cadogan Estates comments: "We look forward to seeing JMP's Masterplan and Vision document that will then form the basis of consultation with planners, local businesses and residents. This is an exciting new chapter for Sloane Street, an opportunity to create a more dynamic cityscape connecting Knightsbridge and Sloane Square."



The practice has an extensive masterplanning and landscape portfolio, notably the award-winning Stanislavsky Factory in Moscow, the British Embassy in Algiers, the King's Cross Station masterplan, a masterplan for the Royal British Columbia Museum in Victoria,

the reconfiguration of public realm as part of our urban design for East Croydon Interchange, Euston Circus, the new Crossrail Bond Street Station, George Square in Glasgow and the Tate Millbank masterplan.



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AUCTION

10x10: Drawing in the City 2013 Auction 28 November, London www.10x10london.com/events/auction

AWARDS

2013 Jencks Award Benedetta Tagliabue 19 November, London www.architecture.com/whatson

The RIBA President's Medals Student Awards 2013

27 November - 29 January 2014, London www.architecture.com/whatson

CONFERENCES & SEMINARS

Delivering Homes for an Ageing Population

20 November, London www.newlondonarchitecture.org/ events.php

EXHIBITIONS

A Celebration of Archive: Design Encounters Between Old and New Until 15 November, London www.dcch.co.uk

10x10: Drawing the City London Exhibition

22 - 28 November, London www.10x10london.com

Great Estates: How London's landowners shape the city Until 17 December, London www.buildingcentre.co.uk/galleries

Designers in Residence 2013 Until 12 January 2014, London

designmuseum.org/exhibitions

Emerging Architecture 28 November - 22 January 2014, London www.architecture.com/whatson

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

FILM

Architecture on Film: Italy – The New Domestic Landscape, MoMA, 1972 28 November, London www.barbican.org.uk/artgallery

NETWORKING

www.ifb2014.com

netMAGevents Evening
Networking Event
21 November, London
http://netmagevents.eventbrite.co.uk/

The Architects' Ball
7 December, London
www.thearchitectsball.com

TALKS, LECTURES & DEBATES

The Blue Riband
15 November, London
http://art.tfl.gov.uk/labyrinth/events

Architecture Afternoon Talk: Corbett Lyon 16 November, London www.royalacademy.org.uk/events/talks

Didier Faustino: Transgression 21 November, Bristol www.architecturecentre.co.uk/events

Concrete Elegance – Schools for the 21st Century 27 November, London www.buildingcentre.co.uk/events

Marie-Ange Brayer/FRAC – Bartlett International Lecture Series 27 November, London www.bartlett.ucl.ac.uk/architecture/ latest/events

How do we deal with the legacy of 1960s university buildings?
29 November, London www.newlondonarchitecture.org/

Spyros Papapetros - Bartlett International Lecture Series 11 December, London www.bartlett.ucl.ac.uk/architecture/

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latest/events

Accessible housing: what makes good practice? 16 January 2014, Gateshead www.architecture.com/whatson

TOURS

Architecture on the Thames East 30 November, London http://open-city.org.uk/activities/yearround/boateast.html

Great British Buildings: RSA, London 20 January 2014, London www.architecture.com/whatson

TRADE SHOWS

National Painting & Decorating Show 19 - 20 November, Coventry www.paintshow.co.uk

Sleep 20 - 21 November, London www.thesleepevent.com

Education Estates 26 - 27 November, Manchester www.educationestates.com

Retrofit Roadshows
Date left: 6 December, London

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

Surface Design Show 4 - 6 February 2014, London www.surfacedesignshow.com

The Eco Technology Show 26 - 27 June, Brighton www.ecotechnologyshow.co.uk

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The British Homes Awards 2013 winners announced



The British Homes Awards catagory winners were announced on 18 October. For a full list of winning and commended projects, go to britishhomesawards.co.uk/2013/awards

The British Homes Awards have been pivotal in providing a catalyst for change in the creation of our new homes. The entries for the Home for the Future design competition in 2007 demonstrated that zero carbon housing is not only achievable but can also be aspirational.

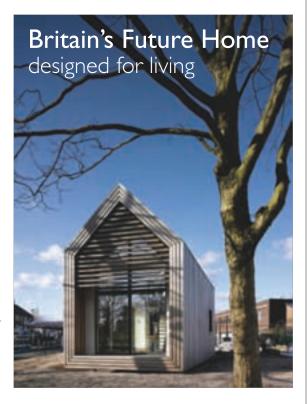
Last year's competition – Tomorrow's Smart: Home – challenged architects to design integrated, inter-operable solutions that demonstrate the application of digital monitoring and intelligent control systems in the home. From a shortlist of six exemplary schemes the readers of The Sunday Times voted Pentan Partnership's SML Home as their winning design.

The 2013 design competition addressed the issues raised in the Future Homes Commission report *Building the Homes and Communities Britain Needs*, which recommended that government must ensure that its review of local housing standards sets minimum national standards for space, storage, noise insulation and natural light. It emphasised that these standards are essential for residents' quality of life and should be incorporated into Building Regulations so that they apply to all housing, of all tenures, across the UK.

It also recommended that "in the future, the layout of homes should reflect the growing need for flexibility and adaptability and that the RIBA should mount a design competition for a flexible home that meets consumer needs and can be replicated at scale."

The shortlist of six innovative schemes was Lifetime dwelle.ing by dwelle; the Flex House by wap architects; the Simple Smart House by Sarah Wigglesworth Architects; the





Snug House: by Snug Architects; the Triptech House by Studio Dare; and Grow-your-own-home by HTA. Readers of The Sunday Times voted for Lifetime dwelle.ing.

The building concept responds effortlessly to the occupants' requirements, however varied. It can be personalised from the outset, but can easily change to meet individual tastes and preferences over time. The simplicity of the system will support different internal configurations and will allow it to be easily extended, either extruded along the length, or doubled-up. Notable benefits include:

- low impact, low-energy and highly sustainable housing
- different sized homes that can be easily extended to provide additional bedrooms, playrooms or home offices
- an appealing option if having to re-house people due to under-occupancy (a positive move)
- plenty of space and storage
- a mix of cladding materials including brick-slip, zinc and timber
- promoting the three Rs... reduce, reuse, recycle
- eco-hub, bike store and recycling centre
- encouraging urban gardening and growing
- each dwelle.ing factory built in eight weeks/ two weeks on-site
- from £89,000 each

Winners

Small House De Beauvoir House: Scott Architects

Family Home White Lodge: Dyer Grimes: Galower Builders

Luxury House Downley House: Birds Portchmouth Russum Architects

Interior Design Avondale Park Hall: Powell Tuck Associates

Apartment Building VIVO: Levitt Bernstein: First Base/ East Thames Group

Conversion, Restoration or Refurbishment Lakeshore: Ferguson Mann: Urban Splash

Affordable Housing Development Anne Mews: AHMM/ Maccreanor Lavington: First Base/Borough of Barking & Dagenham

Age-Restricted
Development
Dreywood Gardens:
Penoyre & Prasad
(Concept Design):
East Thames Group

Mixed-Use Development The Marina Portshead: Stride Treglown: Crest Nicholson

Innovation Award for Building Technology Stoneham Green: Kenn Scaddan Associates: Radian

Development of the Year Barking Riverside: Sheppard Robson: Southern Housing/ Mace/ Bellway Homes

Housing Project
The Deptford Project:
Rogers Stirk Harbour +
Partners: United House

Landscape Development NEO Bankside: Gillespies: Native Land and Grosvenor

cpd focus

LRWA CPD SEMINAR



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

0207 448 3859 www.lrwa.org.uk

enq. 107

THREE WILO CPDS ON OFFER



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

01283 523000 training@wilo.co.uk

enq. 110

RADIANT HEATING & COOLING AND HEAT RECOVERY VENTILATION



Zehnder's RIBA-accredited CPDs include: The Radiant Heating and Cooling CPD, which examines the energy-saving technology further and explains the benefits the system can offer. Learning objectives include: an understanding of radiant heat and how it works: how resultant/perceived temperature affects us; the features and benefits of radiant heating; comparisons between radiant and convective systems; how radiant panels are made; their performance and the applicable specification; basic system design considerations; an understanding of good and bad practices; and the concept and technicalities of radiant cooling.

The Heat Recovery Ventilation CPD explains everything you need to know about heat recovery ventilation in order to successfully specify it in high code level homes and Passivhaus projects. Learning objectives include: understand what heat recovery ventilation is; understand what constitutes a High Code Level House and Passive House; understand why heat recovery ventilation is needed; be able to identify which features are necessary in order to achieve High Code Level or Passive House status; and be aware of best practice when specifying heat recovery ventilation.

CPDs are generally delivered over the course of a lunch hour at your office.

01903 771021 www.zehnder.co.uk

enq. 111

NEW RIBA APPROVED PARTITIONING CPD FROM SAS INTERNATIONAL



The new partitioning CPD from SAS International provides an introduction and overview of what to consider when specifying interior fit-out products. It covers benefits, specification writing and environmental compliance of fully glazed partitioning. Performance criteria are also detailed referencing tests for acoustics, fire, and strength and stability. The CPD also details deflection; it is essential with partitioning systems to allow for suitable building slab deflection.

0118 929 0900 www.sasintgroup.com

IN FURNITURE

CREATIVE USE OF DESIGN SPACE



Hettich UK's new CPD, Creative use of design space in furniture, is based on its expertise on innovative furniture fittings which maximise use of space. Hettich shows how fitting solutions can address design challenges in residential and commercial environments, particularly where space is at a premium. Hettich complies with European eco-management and audit scheme EMAS. It is quality assured to ISO9001 and environmentally assured to ISO14001.

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enq. 112

IKO POLIMAR:ADVANCED TECHNOLOGY IN LIQUID WATERPROOFING SYSTEMS



This IKO CPD enables specifiers to learn about the benefits of using the latest liquid waterproofing technologies designed to meet the needs of modern construction. It covers key applications including roof, balcony and walkway, external cladding, car park and glass protections. The seminar also covers the latest technological developments in advanced liquid waterproofing systems.

01257 488011 www.ikogroup.co.uk

enq. 109

NEW CPD LAUNCHED BY FRANKE WASHROOM SYSTEMS



A new CPD by Franke Washroom Systems supports a new generation of commercial washbasins and washtroughs made from the company's own moulded solidsurface - Miranit. The CPD covers both the standard range of Miranit basins and Miranit Bespoke. Highlights include the benefits of using solid surfaces in washrooms, the properties of Miranit, the benefits of using Miranit overt ceramics, cleaning and maintenance, standards and approvals, custom made products, and various commercial application examples.

ws-marketing.gb@franke.com

enq. 113

continuing professional development

Maintaining and improving professional competence, skills, abilities and knowledge

CPD ON SPECIFYING THE CORRECT HARDWARE FOR WINDOWS



MACO's RIBA approved CPD looks at British and European standards, the cause, effect and prevention of corrosion on hardware and security and safety. It offers advice on types of window systems and their applications. There is an introduction to the varying locking systems available and coverage of security testing procedures. On completion, the architect should be confident in specifying the correct hardware for windows.

01795 433900 www.macouk.net

enq. 114

SPECIFYING HARDWOOD TIMBER **EXTERNAL DOORSETS**



Urban Front has joined the RIBA CPD network with a new seminar entitled Specifying Hardwood Timber External Doorsets. Learning aims include information on insulation, passive house, challenges with maintenance, accessibility and door security. The CPD is largely visual and offers various opportunities to touch and feel samples. It lasts approximately 45 minutes.

01494778787 www.urbanfront.co.uk

enq. 115

WINDOWMANAGEMENTTM-A PRE-REQUISIT TO DAY LIGHTING & LIGHTING CONTROL



MechoSystems is a globally recognised innovator in the commercial roller blinds market, with over 50 years' experience in this product catagory. MechoSystems' CPD covers aspects of WindowManagementTM from fabric type and selection to how automated shading controls can enhance the energy performance of commercial buildings.

01908 361310 nancy.kerr-jones@mechosystems.com www.mechosystems.co.uk enq. 116

WETROOM DESIGN & SPECIFICATION CPD FROM CCL WETROOMS



CCL Wetrooms have developed a Wetroom Design & Specification CPD to help guide architects through the process of designing and specifying a watertight wetroom. The technical presentation covers the key considerations, including wetroom design and layout, waterproofing, drainage, floor build up and installation. It also includes a section on how wetrooms can help meet the Lifetime Homes Standard.

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

enq. 117



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LEICESTER

Innovation Centre sparks regeneration



news bytes

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Update on Geffrye Museum new development... Ref: 48603

Twyford Bathrooms partner with the NBS to launch new Specmaster Online... Ref: 85103

The top Architecture winners from the UK Property Awards are announced... Ref: 37730

Artistic partnerships pave the way for Nine Elms on the South Bank as a vibrant cultural hub... Ref: 28274

Latest Regent Street regeneration project gets underway... Ref: 86795

Rolex Arts Initiative names seven major artists as mentors, including Peter Zumthor... Ref: 43317 A three-storey atrium with breakout spaces, meeting places and exhibition areas forms the natural heart of a new innovation workspace centre in Leicester, known as 'Dock'.

Providing 2,000 sq m of workspace, its design reflects the high-tech location on Leicester Science Park adjacent to the National Space Centre.

Designed by **Maber Architects**, the £5.1 million project has already sparked further development on the innovation park, a significant element in the city's regeneration plans.

Architect Paul East, a director at Maber, says: "We have created an environment where the next generation of technology businesses can work together in open and collaborative ways. We have just handed the building over to Leicester City Council, and we're delighted that the project is proving to be a catalyst for further regeneration in Leicester."

Dock's design reflects technology, innovation and science – the cutting edge nature of the start-up businesses that it will house. Its airy atrium space is a natural meeting area for the businesses occupying the labs, workshops and offices around it, encouraging interaction among tenants for idea sharing and partnership working. The central atrium also draws air through the building and funnels services to the business spaces, contributing to its achievement of a BREEAM Excellent rating.

COMPETITION WINNERS

Winner of ROCKPANEL Product Design Award 'Stone becomes Art' is announced

Under the title 'Stone becomes Art', the winner of the first European-wide ROCKPANEL Product Design Award was announced at the official opening of the new production facility in Roermond, The Netherlands, on 10 October.

During the summer, ROCKPANEL, the facade panel manufacturer invited architects, planners, product designers, specialists in related disciplines and students to design a new, unique and creative stone-look product to reflect the facades of the future. A total of 52 designs were submitted from a wide range of European countries.

The winner of the ROCKPANEL Product Design Award 'Stone becomes Art' was Roman Baudisch, an architectural technician from Hamburg, with his design 'Volcano'. As well as prize money of €5,000, the winning design will be included in the ROCKPANEL stone range, to be launched for 2015. The 'Volcano' design is now being further developed in close collaboration with



the winner until it is ready for production. The design awarded second place, with prize money of €2,000, was created by Marit Angenita Otto, a Dutch artist from Zwolle. Third prize was won by the Collective A from Münster, Germany, represented by B.A. Arch Ronny Zschörper and Franziska Adler.

Plan to revive Canal Basin wins RIBA Forgotten Spaces top prize of £5,000

The RIBA has announced the winner of the Forgotten Spaces competition in Preston as 'canaLIDO', a proposal to bring back to life the Lancaster Canal Basin by creating a sense of community through the construction of a lido.

The competition saw architects, students and designers put forward innovative concepts, which would re-connect redundant and neglected

spaces across Preston with the community. The competition is for ideas only and it is not intended to commission the plans, however it is hoped that the entries will provoke discussion among landowners, local authorities and investors about regeneration via a grass roots approach.

Visit adf-news.blogspot.co.uk and enter reference number 70515 to view more information.







Side elevation of The Sill Landscape Discovery Centre (above)

Animated 3D fly-through of Northumberland's new Landscape Discovery Centre showcased for the first time

A stunning 3D fly-through featuring the innovative designs for a planned new national Landscape Discovery Centre and YHA Youth Hostel in Northumberland has been revealed for the first time, by award winning Newcastle architects Jane Darbyshire and David Kendall (JDDK). The Sill aims to inspire and transform how people understand, access and enjoy the unspoilt natural and cultural landscapes of Northumberland National Park, Hadrian's Wall World Heritage Site and across the rest of the region.

At the most recent community event, members of the public were treated to a more in depth look at the latest design concepts for The Sill, the working title of the new £11.2 million centre, which is being steered by Northumberland National Park Authority and YHA (England and Wales).

These updated designs, refined after months of extensive consultation with the community, showcase a building that is both 'inspired by the landscape and of the landscape'; shaped to reflect the undulating contours of the Whin Sill landscape and Hadrian's Wall glacial lakes. The concepts incorporate a palette of materials that will continue this natural design, including dry stone walls, heather thatch and its standout feature, the UK's first 'green roof' created from Northumberland's rare Whin Sill grassland and the native plants found in Northumberland National Park – all of which was welcomed by the community.

Visit adf-news.blogspot.co.uk and enter ref: 42577 to view more.



enq.121

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enq.122

enq.123

Eurobond Rainspan makes winning contribution to Hadyn Ellis Building



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he award winning Hadyn Ellis Building in Cardiff is a striking landmark development that acts as the 'front door' to the University's Maindy Park research campus. The £30 million building is named in honour of the late Deputy Vice-Chancellor, Professor Hadyn Ellis.

Eurobond's Rainspan terracotta architectural facade system is an important part of the project and it was specified for speed of construction. Its market leading environmental credentials helped to ensure that within the materials section of the BREEAM assessment, the building was given an excellent chance of achieving a high rating.

BAM Construction and architects Nightingale Associates, lead contractors on the building, delivered the highest standards of sustainability, both in the design of the building and construction methods. This enabled the building to achieve a high 'A' BREEAM rating of Excellent with an outstanding score of 75.38 per cent that allowed

it to win the Higher Education category of the BREEAM Awards for Wales.

Installation of the Rainspan System is fast and easy and the long span capability can reduce secondary steelwork requirements and build costs. Thermal efficiency helps to reduce the carbon footprint and it provides 'as tested' air tightness of less than $1 \, \text{m}^3 / \text{hour} / \text{m}^2 - \text{all helping to deliver}$ outstanding BREEAM rated buildings.



eng 124



CPMG-designed BSF schools reach completion

Two new schools designed by Nottingham based **CPMG architects** have reached completion and mark the final stages of Stoke-on-Trent's Building Schools for the Future programme.

The new £20 million, 11,000 sq m Discovery Academy was constructed by Wates Construction. CPMG's design of the two-storey building includes flexible teaching spaces and indoor and outdoor sports facilities, including a multi use games area and an astroturf pitch, which is available for use by local clubs and the wider community.

The main entrance of the building features a dramatic double height 'agora' space. From the 'agora' a clear circulation spine provides horizontal access to all areas of the building while also defining the more public zones from the secure teaching environments beyond. These include communication, numeracy, humanities, sciences and design and technology. Cross school accommodation includes music and drama facilities, a sports hall and associated dance and fitness studios.

CPMG also designed the £12 million Kemball Special School, which was built by award-winning contractor Thomas Vale Construction. This new build 6,200 sq m facility is designed to accommodate 140 pupils with complex cognitive needs.

Kemball has been designed to create

an inspiring and stimulating sensory learning environment centred on the idea of inclusion, achievement, creativity and flexibility. CPMG's design incorporates light and airy classrooms designed to offer maximum flexibility with pairs of classrooms arranged around en suite hygiene facilities and a dedicated quiet room for one to one teaching. Shared community areas include sports and dining facilities and a sensory soft play area.

These projects are two of 18 school buildings to receive new and improved facilities in a three-year schedule of work under Stoke-on-Trent City Council's £270 million Building Schools for the Future (BSF) programme.

news bytes

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

ReardonSmith establishes new landscape design discipline... Ref: 39371

New Changi Airport Terminal 4, designed by SAA and Benoy, unveiled... Ref: 29350

3D Architects design award success... Ref: 33446

20 of the world's best architects and designers build A Dolls' House for kids... Ref: 17917

FaulknerBrowns' Olympic legacy makes a splash at top industry awards...

Ref: 20876

Surface Design Awards
– finalists announced...
Ref: 28840

LONDON

PCKO Architects completes The Bloc, an urban regeneration scheme to house key workers in North London

The Bloc is a £25 million urban regeneration residential scheme designed by PCKO Architects for Origin Housing Ltd close to the North Middlesex Hospital in Edmonton, North London. The scheme provides 221 units, incorporating 128 units for key workers/intermediate rent, 65 social rented units and 28 shared ownership units, as well as a local office for Origin Housing Ltd.

A key element of the overall design is how the integrated, high quality land-scaping scheme sculpts the development through the idea of an urban village, with strong community ties promoted through features such as squares and community courtyards.

In order to encourage sustainable

lifestyles the homes are built to Code for Sustainable Homes Level 4 and 20 per cent of the site's energy demands are met through on site renewable energy technologies. The efficiency of the development's energy strategy was maximised by designing around the work/live occupancy patterns of the residents. This also influenced the phasing strategy of the build, which was carefully planned over several years to smooth the process of decanting existing residents, who are key-workers from the nearby North Middlesex Hospital. This has been achieved successfully with the first phase completing in summer 2012 and the second and third phases following to the agreed programme.





editor's focus

CD (UK)

As the first UK installation for this forward-thinking integrated solution, the Orchard Medical Centre in Bristol now benefits from new hand washing stations made from ThermoLine worktops in DuPont™ Corian®, from exclusive UK distributors CD (UK). Positioned in four new consultation rooms in a busy primary care facility, these sleek, seamless units were installed quickly and costeffectively by Freemont Ltd. Ideal for healthcare environments, ThermoLine post-formed worktops maximise the design, performance and hygienic advantages of Corian® while minimising the cost of fabrication.

eng. 126

De Leeuw

De Leeuw Ltd is a specialist in optical and thermal reflector technology and distributes a number of solar glare control, shading hardware and material solutions. The company operates nationwide from its base in the West Midlands. De Leeuw supplies manually and electrically operated shading systems for vertical, inclined and horizontal windows in higher specification buildings and areas where overheating is an issue. High capacity blind systems, with specialisation in systems for air traffic control towers and control rooms, are available.

enq. 127

Taplanes

Shower cubicle and bathroom pod manufacturer Taplanes Ltd provides pre-fabricated solutions to a variety of end users throughout the UK and Ireland. With a strong client base including universities, schools and major hotel groups, Taplanes' pre-formed shower enclosures overcome the inherent problems associated with conventional bathroom areas. Innovative designs and product reliability ensure Taplanes is the

preferred choice in both the refurbishment and new-build sectors. The pre-fabricated construction provides many advantages over traditional construction methods and delivers significant long-term benefits.

enq. 128









Hurlingham Bath Company

The Hurlingham Bath Company is pleased to announce the launch of its brand new range of baths and bathroom accessories. From the traditional cast iron roll top bath, to the stunning copper bateau with leather trim, Hurlingham offers outstanding quality and unrivalled style. All baths are hand finished in Hurlingham's UK workshop to meet its exacting standards. Bespoke finishes are available, including polished cast iron and an extensive range of paint colours. A full range of bathroom taps and fittings are also available to complement Hurlingham's stunning baths.

enq. 129

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. 130

FloodGuard UK

With over 12 years' experience, FloodGuard UK Ltd is a flood mitigation expert capable of protecting your clients from the increasing risks of flooding. The company offers a wide range of products and services designed to fit the needs of home owners, businesses and the public sector. It can also offer a bespoke solution when required. FloodGuard UK has installed its products in a variety of buildings throughout the UK, including New Scotland Yard, University College of Cork, Fujitsu Data Centres, Shepherds Bush Station, and residential, commercial and historic and conservation properties.

enq. 131

Go Shelters

Go Shelters Ltd manufactures and installs a wide range of shelters, canopies and covered walkways supplying to city councils, health and education authorities, MOD sites and blue chip companies as well as smaller parish councils and SMEs. From multiple shelter installations to one off bespoke designs Go Shelters offers a full design and advice service to assist its customers in their choice. All structures are manufactured in the company's own UK premises ensuring high quality products with efficient lead times.

enq. 132





Old Manor Cottages

Old Manor Cottages provides an advisory and design service to period building owners through the change of glazing or the complete window. Old Manor has improved the way double glazing is assembled in windows, using warm edge insulated spacers between both panes of glass. The result is aesthetically pleasing and performs better, providing more insulation than the aluminium counterpart. All windows manufactured by Old Manor Cottages are fully finished and include traditional furniture, as well as modern technology for efficiency and security.

enq. 133

Flood Control International

Permanent flood protection is achievable with Flood Control's unique glass flood wall, which can extend upwards when flood heights rise in the future. Stainless steel framing and structural glass minimise visual intrusion where aesthetics are important. The company's flood-proof doors and gates give permanent protection and can operate over dead-level thresholds. Alternatively fully automatic barriers allow either operation in advance of flooding, for peace of mind, or with rising floodwaters, using flood sensors. These automatic barriers can operate completely free from power.

enq. 134











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GARAGES I GARDEN ROOMS I ORANGERIES I HOME OFFICES I CONSERVATORIES I BARNS I STABLES

.MAP By GroundSure

roundSure, a leading environmental intelligence provider, has launched a new online mapping tool designed for architects. The software, called .MAP By GroundSure, provides a flexible range of mapping solutions, which allow you to pan, zoom and plot site layouts and export them for planning applications and site surveys.

.MAP By GroundSure is built on extensive research to understand what architects need. An easy to use mapping interface and integration to design software, such as AutoCAD, were pre-requisites. It also works on any web browser, ensuring every property professional can complete mapping and planning tasks quickly, saving time for other projects.

It offers a unique credit system, allowing users to view and scan the selected mapping area without incurring upfront costs. The system will also automatically add local planning permission data to check for precedent information on permissions and refusals, as well as, crucially, identify key environmental risks in the vicinity – all completely free of charge.

As well as Ordnance Survey MasterMap Topography layer mapping, the gold standard for planning maps, .MAP also offers:

- Ordnance Survey VectorMap® Local
- Aerial photography Ordnance Survey Background maps
- Printed plans and maps for planning applications
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If you register before 31 December 2013, your first mapping order has a 25 per cent discount.





For more information call 0800 028 0000 or email info.map@groundsure.com.

Visit map.groundsure.com

ena.136

Silver Cradle to Cradle status for Armstrong



Six months after one of its mineral fibre ceiling tiles was granted basic Cradle to Cradle* certification, Armstrong's Perla OP 0.95 tile, which contains 53 per cent recycled content and is 100 per cent recyclable, is now accredited to Silver status. The tile is part of a development to meet growing customer demand for sustainable products. With certification already becoming a requirement for building projects in parts of America and Europe, Jeremy Sumeray, Armstrong's

senior segment manager said: "To maintain involvement in the C2C programme we must demonstrate continued progress towards the ultimate goals..."

01895 251122 www.armstrong-ceilings.co.uk

enq.137

Lime Technology Group increases sociability



Lime Technology Group, pioneers in the development of innovative, low carbon and sustainable building systems and lime-based building products, has created a multi-faceted social media marketing platform in its drive to further purvey the strength and depth of the Group's products and services. Incorporating Facebook, Twitter,

LinkedIn and You Tube, each social media channel will be used to stimulate greater interactivity with the Group and its target audiences. In order to maintain consistency in terms of brand representation, each social media tool has been executed to echo Lime Technology Group's recently refreshed corporate identity.

01235 434300 www.limetechnology.co.uk

enq.138

BIM files for window products from NorDan will see greater optimisation of glazing



BIM (building information management) files for use with Autodesk Revit software are now available to download from NorDan, enabling architects to insert NorDan window and door product information directly into their drawings. This approach to architectural CAD provides parametrically defined interacting building objects. BIM software will enable traditional building drawings with an 'intelligent' layer of information in addition to the outlines of windows. John McMenamy, of NorDan, says: "As this information layer develops it will greatly assist the design team in their energy analysis of the building. We envisage greater optimisation of glazing properties to control heat transfer through the building fabric will result in cost savings for heating and cooling systems." Architect Paul Mitchell, at Kay Elliott Architects, who has successfully used the NorDan window drawings in BIM for a recent project, says: "The BIM modelling allows 3D images of components of a building of which windows are one part. We can see additional information about these elements of the building envelope, and it allows us to add information and the ability to interrogate the drawing for u values, glazing coefficients, etc. This gives us potentially intelligent information available and attached to the drawing, which helps identify discrepancies..."

01452 883131 www.nordan.co.uk

enq.139

ROCKPANEL launches new production line



ROCKPANEL has launched a new production line for its ever expanding range of façade panels. It represents a strategic investment of €23.6 million, and is vital for the company in meeting increasing demand for its innovative products. Managing Director Mark Gerardts commented at the official opening ceremony: "The new production line has been constructed in response to the demand from our customers who value the aesthetic and technical aspects

and the sustainable characteristics of our products... Today, at 'Sustainability Day' it is a clear sign of our confidence in ROCKPANEL's future growth plans in which efficient use of raw materials and recycling are of key importance."

01656 863210 www.rockpanel.co.uk

ena.140

130th anniversary International Conference



Anti-corrosion and sealing specialist Winn & Coales International Ltd recently held their Denso International Conference in September. This event is held at a different location each time and this year the venue was at the company headquarters in London to celebrate and mark

the company's 130th anniversary. International delegates were involved over the course of a week with technical presentations and product application demonstrations on the main brands; Denso, Premier, SeaShield, Protal and Archco-Rigidon. The conference ended in a series of subsidiary board meetings. It was agreed by all that this was the most successful and enjoyable conference to-date.

0208 670 7511 www.denso.net

ena 141

Kemperol takes central stage at the National Theatre



As the National Theatre prepares for its 50th anniversary season, Kemper System has ensured that its Grade II listed building continues to perform by providing the waterproofing membrane for a major refurbishment project. The distinctive terraced balconies provide both public walkways and roofs for offices below, so when their original asphalt surfaces started failing the National Theatre decided to re-waterproof them as part of an £80 million refurbishment. Kemperol 2K-PUR from Kemper System was selected as an effective, flexible membrane that could be applied directly onto the existing substrate without the need for any hot works or strip out. Because the cold liquid-applied membrane is solvent and odour-free, it could be installed while the building was occupied with minimum disruption. Following minor repairs to the existing substrate, the installation team applied Kemper System's Kempertec primer and, once this had been allowed to cure, the Kemperol 2K-PUR solvent-free resin was applied to each surface. The Kemperol resin saturates a non-woven reinforcement fleece and cures to form a seamless, monolithic membrane that is UV stable and permanently elastic with a direct bond to the substrate. In some areas, Kemper System's Kemperdur Quartz Coating was also applied to provide a coloured, slip-resistant, protective coating.

019 254 45532 www.kempersystem.co.uk

enq.142



Winn & Coales celebrate 130th anniversary with a visit from HRH The Duke of York, KG

Winn & Coales International Ltd, specialist Denso anti-corrosion and sealing product manufacturers based in West Norwood, London, celebrated their 130th anniversary with a visit by HRH The Duke of York. Also in attendance were Deputy Lord Lieutenant Major David Hewer OBE and the Mayor of Lambeth, Councillor Mark Bennett. During the visit His Royal Highness unveiled a commemorative plaque specially commissioned for the occasion and congratulated the company on its success of over 130 years' trading due to a combination of innovation, commercial nous and sound manufacturing practices, all resulting in continuous growth both in the UK and worldwide. Manufactured by subsidiaries in the USA, Canada, Australia, New Zealand and South Africa, Denso corrosion prevention and sealing products are well known and used all over the world for the protection of steel and concrete.

0208 6707511 www.denso.net





Changing Places to achieve inclusive status

The target of becoming 'the most accessible city in Europe' is set with the opening of a new public toilet facility in Manchester's Town Hall Complex in Lloyd Street, which enables disabled people and their carers to enjoy the city without worrying about access to appropriate toilets. With equipment supplied by Manchester-based Clos-o-Mat, the new Changing Places public toilet is the first of its kind planned by the City Council. Considerable research and consultation was undertaken at the design stage, in the belief that a Changing Places toilet would make a huge difference to anyone who needed help to use the toilet, and who would otherwise have to either curtail their trip, or not visit the city centre at all. The toilet is larger than the usual wheelchair accessible toilet, to accommodate the user and carer, and is placed to allow transfer from either side. There is a height adjustable changing bench and ceiling hoist, plus a shower and washbasin.

BUILDING PROJECTS





Speaker's corner

An energy efficient, new headquarters named after a former parliamentary speaker has brought Croydon Council closer to its public, Mark Smulian reports

Stand in a small public garden in central Croydon and one can see the rather unusual sight of three adjacent town halls. The first is the Victorian original, now Grade II listed and boasting a fine tower and the elaborate ornamentation typical of the period. Next comes the 20-storey brutalist slab of Tabiner House, into which the council moved in the 1960s. Between the two stands the 200,000 sq ft Bernard Weatherill House, into which Croydon Council staff moved during the autumn of 2013, leaving Tabiner House to, according to plan, be demolished and redeveloped.

Bernard Weatherill House, named after the former local MP and House of Commons speaker, is a complete contrast to both its predecessors, a light blue clad building rising to 12 storeys. Its design was guided by the principle that the council's headquarters must be not just a place that residents can enter to transact business but one that looks welcoming, and which lets them see the council at work. Bernard Weatherill House goes from five storeys to eight to 12, with a two-storey annexe. Its main building has a central atrium, glass walled on all sides allowing anyone in the public reception area on the ground floor to observe council staff at work around them.

Julian Barrett, associate director of architect EPR, explains how Croydon's brief was turned into reality: "There was a three storey council office building on the site linked by bridges to Tabiner House and with a basement and car park.

"We did not change the site topography, it was a matter of demolition and rebuilding in the same space. One issue was that a very significant BT cable runs through the site, which would have cost the council £3 million to move, so we instead sited the building slightly differently to avoid it."

Continued overleaf...

'Croydon wanted the building to achieve a BREEAM Excellent rating, which it has with a design planned to minimise running costs and to reduce carbon impact'

Photo: Bernard Weatherill House takes its place between the Victorian town hall and the 1960s Tabiner House, which it will replace



EPR decided on a stepped building, as a slab would have overshadowed the old town hall. It steps up becoming higher towards the side that abuts the Croydon flyover, matching tall buildings on the opposite side.

Barrett says the council's design brief was "quite prescriptive as to what it wanted for accommodation.

"The council initially did not want a landmark building but saw it more as something to kick-start regeneration in that area.

"They now have something that is very functional but sits well in that location with the listed old town hall and the public gardens.

"What they've got is a new headquarters building that in massing terms, responds to its context, materially is pretty honest about it's function, spatially provides them with a modern flexible working environment and generous public facility and is an exemplar of sustainable design."

Bernard Weatherill House is built from an insitu concrete frame with 150mm raised floors throughout and exposed concrete soffits for ceilings, which help with thermal mass, with concrete columns rising up and also providing an interior feature through each storey.

"We would have left exposed soffits but painting them white did the job better in terms of light," Barrett says.

The curtain wall is fully glazed with a twin skin and white ceramic fritting lines on the glass help to reduce solar gain.

"The biggest issue was to do the cladding so it was transparent but did not affect thermal performance too much, using two skins means air can enter between them in summer but vents at the top close in winter," he says. "The fritting helps, though it led to scrutiny of costs as its not cheap, but it works."

The facade consists of a double glazed inner skin, ventilated cavity and a single glazed outer skin with the ceramic frit. Dynamic thermal modelling of the facade indicated this provided the optimum approach for good daylight into the internal space while also reducing solar gain in summer and improving thermal insulation in the winter.

During the summer months, the facade is fully open to the environment using temperature sensors to activate dampers to allow heat that has become trapped in the cavity to be removed by the stack effect, thus reducing heat gain to the space. In winter, the dampers shut and the cavity is used to help insulate the building and reduce the heat loss by making use of the sun's energy to heat the building.



Croydon wanted the building to achieve a BREEAM Excellent rating, which it has with a design planned to minimise running costs and to reduce carbon impact.

The atrium gives good natural daylight into the centre of the building, which would otherwise be distant from windows.

There is a combined heat and power system used for both heat and cooling, though the heat demand is low because of the way the building is designed.

Although all staff from Tabiner House and from some other redundant council buildings will transfer into Bernard Weatherill House, remote working means that they are not all expected to be there at once. With desk space for about two-thirds of the 2,800 staff, the building has less IT equipment giving out heat than did its predecessor.

Other passive measures include optimisation of high performance glazing G-values and U-values on the different

facades to limit solar gain and heat loss.

According to mechanical and electrical engineering contractor Aecom, the equivalent G-value for the climate wall was 0.19 with a U-value of 1.20 W/m 2 k but still provided good light transmittance, which it said far exceeded both the requirements of the 2006 regulations at time of design and the current 2010 regulations. The building is airtight with very low air permeability.

Water-cooled chillers generate cooling water with heat rejection by water efficient hybrid cooling towers to provide high seasonal efficiencies.

Low NOX gas fired central boilers and the CHP system are used to generate heating and electricity for both Bernard Weatherill House and the old Town Hall opposite. The heating from the CHP is used in an absorption chiller in the summer to ensure it operates for the maximum number of Continued overleaf...

A corner of the interior while under construction (opposite). Climber lifts rise to the atrium roof height in Bernard Weatherill House (above)

BUILDING PROJECTS

'Croydon's new civic centre is a great example of modern thinking, sustainability and efficiency in local government, ready to meet the needs of residents in the 21st century'

Councillor Sara Bashford, cabinet member for corporate and voluntary services

Photo: Bernard Weatherill House shown rising progressively higher to avoid an overbearing 'slab' appearance



Main contractor: Sir Robert McAlpine

M&E, structural, fire and acoustics contractor: Aecom

Planning consultant: Indigo

Curtain wall consultant:
Buro Happold

Landscape consultant: Capita Lovejoy

Lift supplier: Mitsubishi

Client and planning authority: London Borough of Croydon



hours year round to generate electricity.

Central air handling units with heat recovery supplying straight runs of ductwork have allowed specific fan powers to be very small at 1.80 w/l/s, which for a building designed under 2006 Building Regulations is significantly lower than the new requirements of the 2010 edition, Aecom says.

Very efficient light fittings with a fully addressable lighting control system make use of the high levels of natural daylight and to minimise unnecessary use of artificial lighting.

On the roofs, photovoltaic panels are used to generate electricity, while some of the roofs are 'green' and water from them is collected for rainwater harvesting, mainly for flushing toilets.

All these systems are monitored from a central building management control. However, except for the photovoltaics, renewable energy proved unusable.

"Other types of renewables did not work economically", Barrett says. "Wind does not really work in an urban setting like that. Ground source heat pumps were considered but not used for similar reasons."

Internally, Bernard Weatherill House has two wall climber lifts and four conventional ones in a shaft.

These are no ordinary lifts, being programmed to 'learn' travel patterns, for example, that the canteen floor will need a frequent service at lunchtimes.

The public area on the ground floor, named Access Croydon, is where residents do business with the council and meet its staff. It bristles with terminals and printers where visitors, perhaps those who lack internet access at home, can get information and send documents to officers.

Around and above them the council can be seen at work. Staff who deal with the public can enter through a lockable door at the rear, thus keeping the bulk of the building secure and off limits to unauthorised visitors.

Bernard Weatherill House is part of a wider regeneration project known as the Croydon Council Urban Regeneration Vehicle, a 50/50 joint venture partnership between developer John Laing and the council to regenerate a range of sites over 28 years.

It is also a wider public service hub, accommodating staff from the Metropolitan Police, NHS, Jobcentre Plus, Croydon Credit Union and Citizens Advice Bureau, and with the linked annexe available for hire by local organisations.

Councillor Sara Bashford, cabinet member for corporate and voluntary services, says: "Croydon's new civic centre is a great example of modern thinking, sustainability and efficiency in local government, ready to meet the needs of residents in the 21st century."

Barnsley chooses Crittall again 80 years on



The iconic Barnsley town hall underwent comprehensive refurbishment and Crittall was specified as the preferred provider for the window replacement having also supplied the original windows in 1933. To comply with planning requirements enforced for listed buildings, Crittall recommended its Corporate W20 profiles with planed down narrow section T bars as the ideal solution. For visual continuity, the replacement window

programme involved open out French casement windows and side hung vents with horizontal pivots. For visual impact as well as thermal performance, windows were externally glazed with narrow sightline, insulating, double glazed units.

01376 530800 www.crittall-windows.co.uk

onq. i -io

Marley Eternit EQUITONE creates work of art



Marley Eternit's EQUITONE [tectiva] has helped turn an information kiosk into a work of art at the Edinburgh Art Festival. Four-by-Two Consultants specified EQUITONE [tectiva] for the kiosk on George Street because they liked the natural aesthetic and design purity of the fibre cement material, ideal for creating a focal point at the UK's largest annual festival of visual art. The kiosk was designed with large windows and a part glazed entrance area to allow a maximum amount of light to fill the space. The ability to CNC cut the fibre cement

panels allowed the architects to form perforations in the skin, controlling the day-light entering the space and casting layered shadows into the interior. $_{\rm enq.146}$

The brightness and warmth of HI-MACS® gives a soul to the Maktub children's hospital



In a project inspired by the emotional sensitivity and positivity of children, Architect Elisa Valero went beyond technical aspects to create a space that reduces the sense of isolation in children with immune system deficiencies at the Maktub Centre, in Madrid. The new design of the space aimed to meet functional necessities through eliminating or transforming what are normally perceived as hospital elements. The aims were to enlarge the structure while eliminating obstacles that impeded the view outside, requiring extraordinary precision and coordination. This is why the architect decided to use different materials, including HI-MACS*. The design required a thermoforming material with an elegant, simple design that eliminated joints between the various structures. "I was looking for a long-lasting material that met hospital regulations and could be modelled to eliminate corners in the corridors, to avoid being hit by beds coming in and out of the rooms," said Valero. This, together with colours and shapes, helped create a pleasant, playful atmosphere. Thanks to its aseptic properties, the fact that it is easy to clean and resists chemical agents, acrylic stone is recommended in clinics and healthcare spaces that have to respect the highest standards of hygiene. The aesthetic qualities of stone create warm, welcoming environments for patients, even in spaces that are not usually like this. Several studies have shown that this has a positive influence on patients.

Hunter Douglas enhances prized collections



The striking new Library of Birmingham is one of Europe's largest new public libraries and includes bespoke wooden ceiling systems by **Hunter Douglas**. The Hunter Douglas systems include a solid wood grill ceiling, finished in African Ayous, and Unigrid floating ceilings in black and white. The specially

designed Unigrid ceilings are hung from a series of tubes and hooks, ensuring there is no visible grid. The building also features Hunter Douglas wooden grill ceilings in a very large format with lots of curves, cuts and service integrations to enhance the aesthetic appeal of the main public areas of the library.

01543 275 757 www.hunterdouglas.co.uk

enq.148

UGIBRIGHT for Liverpool Health Centre



Sited on an elevated plot in Garston, the £12 million South Liverpool Health Centre provides a contemporary landmark with its Aperam UGIBRIGHT, mirror-faced, stainless steel façade. The building, designed by architects MBLA Manchester, achieved a BREEAM Healthcare Excellent rating and used

panels 0.5mm thick. Renewables supply 44 per cent of the building's energy requirements, reducing carbon emissions by 15 per cent. UGIBRIGHT can be polished to reflect the surrounding environment as well as to create differing effects as light changes. It requires minimal maintenance and retains its installed appearance for years – even in urban and marine environments.

01246 571660 www.aperam.com

enq.149



Changing Places in the healthcare industry

One in 284 people in the UK need a Changing Places toilet, yet of the UK's 2,300 hospitals, only eight have the 'bigger and better' accessible (disabled) facility. To help estates and facilities managers easily understand the need, the requirement and the criteria, Clos-o-Mat, a leading disabled toileting solutions provider in the UK, has published the white paper *Provision of Changing Places Accessible Toilets in the Healthcare/Hospitals Industry*. Available for download from the company's website, the paper covers the rationale behind a Changing Places toilet, quantifies the need to provide such a facility in healthcare establishments, and covers legislative and 'good practice' guidelines. Unlike a conventional accessible toilet, a Changing Places toilet is a minimum 12 sq m, and has additional equipment including a height adjustable changing bench, hoist and privacy screen. Since the Changing Places concept was developed, over 500 have been installed across the UK.

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Prognosis is a long and useful life for garden city's new hospital

The New Queen Elizabeth II Hospital must fulfill a different role in a health services shake-up, play its part in a national scheme to design buildings for future climate change and stay true to the legacy of town planning visionary, Ebenezer Howard. Jess Unwin reports

elivering just what the doctor ordered is only one aspect of the design challenge of the New Queen Elizabeth II Hospital taking shape in Welwyn Garden City.

It must win over a community that is still getting used to the idea that its much-loved existing general hospital (which was the first full hospital to be built by the NHS) will eventually close with certain services going elsewhere.

In addition, the new hospital is one of 50 building projects nationwide charged with contributing to the Technology Strategy Board's innovative research programme, Design for a Future Climate.

And if that isn't enough, everyone involved is acutely aware of this part of Hertfordshire's place as a creation of town

planning visionary, Ebenezer Howard, and the need to recognise the legacy of his garden city movement.

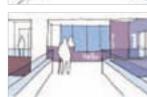
The New QEII is part of a reorganisation of healthcare services in the county that will see acute services transferred to neighbouring Stevenage's Lister Hospital, while the majority of non-bed-based clinical services are retained in Welwyn Garden City. This will include: a 24-hour local A&E facility; rapid assessment unit; general outpatient services; GP services; diagnostics like CT and MRI scans, x-rays and ultrasound; endoscopy and day treatments; ante and postnatal services; a dedicated child zone; therapies; community space; and a pharmacy.

The scheme is being delivered by Assemble Community Partnership – a joint-venture public/private partnership,

*Continued overleaf...



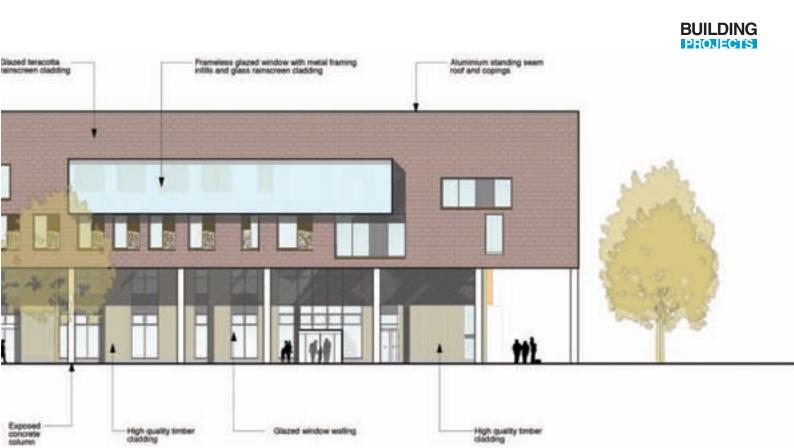




Sketches showing view towards A&E from reception (top) and Outpatient reception (above) both @ Penoyre and Prasad.
Artist's impression of the New QEII (left)

BUILDING PROJECTS





40 per cent of which is owned by the Department of Health's Community Health Partnerships (CHP) and 60 per cent of which is owned by Guildhouse UK Ltd.

The East & North Herts Clinical Commissioning Group (CCG), which includes local GPs, is the NHS organisation that is responsible for the commissioning of services from the New QEII. Jacqui Bunce, an associate director with the CCG, has been instrumental in the hospital's development since 2007. She explains there was input from sources such as the Commission for Architecture and the Built Environment, SHINE (a learning network for sustainable healthcare buildings) and the general public in formulating the design brief.

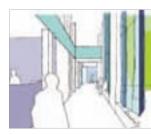
She says: "For local people there was a very clear view that they were losing services, but we wanted to make sure the building and site was something they could be proud of and have that garden city ethos to it.

"We wanted a flexible layout, able to meet the changing needs of healthcare. Other than where there are specific design requirements, for example, endoscopy and imaging, we wanted plenty of generic space that could work for different kinds of clinical services. Hopefully, that will future-proof the building." A design competition for an architectural partner that could help deliver these goals was won by Penoyre & Prasad LLP. Architect with the company, Helen Campion-Smith, believes the exterior of the new hospital has been designed so as not to be too incongruous with nearby housing. "The massing of the building is just two-storey where it sits opposite suburban housing, and the materials – hand and machine-finished terracotta tiles, window walling, timber cladding, self-finished render and brickwork – represent a domestic palette, albeit used in a contemporary way."

She continues: "The building will be a landmark so there will be a sense of arrival, but not intimidating. This might be a clinical building but the feeling should be homely, making people as comfortable as possible during what might be an anxious experience."

The new hospital is being constructed within the grounds of the existing hospital, while it is still in operation, and totals around $8,500\text{m}^2$. Part of it will be two-storey in height, part of it rising to four floors – with 345 external car parking spaces. The structure of the building is of piled foundations with a reinforced concrete frame and a lightweight steel frame to the fourth storey. The hospital's roofing is generally standing seam

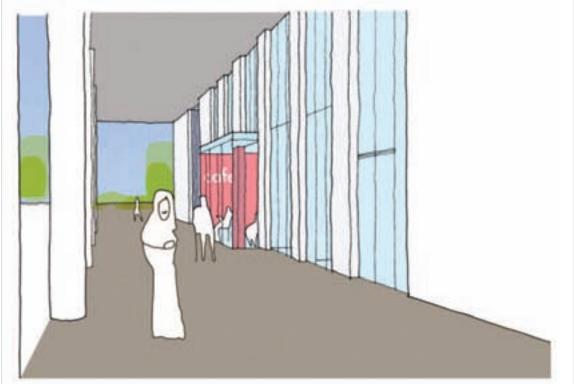
Continued overleaf...



Sketch showing view towards Imaging from reception © Penoyre and Prasad

BUILDING PROJECTS





Sketches showing view from GP area to Outpatients (top) and view towards the cafe from the main approach (bottom)
© Penoyre and Prasad.



metal but the flat, two-storey elements will be green roofs, planted with grasses.

Designed to meet the BREEAM Excellent standard, there is extensive underfloor heating, plus a combination of air source heat pumps and roof-mounted photovoltaics. Thermal models were run to test insulation and airtightness and the building will be naturally ventilated except where clinical needs make that inappropriate. Campion-Smith adds: "All the rooms with natural ventilation are connected to the building management system so at certain times of day and at certain temperatures windows will automatically open."

She continues: "Allowing enough air in via windows can present a problem because normally they are restricted in how much they can open for safety reasons. So here, we're using a large fixed glazed element and then next to it something that's more like a solid door that can be opened fully to provide ventilation but prevent people climbing in or falling out. In

addition, in front of this there will be a security/safety screen. We're working with artists to come up with a bespoke laser-cut steel screen."

Ebenezer Howard's garden city ethos is most obviously represented by the fact the hospital is designed around a 27m by 33m landscaped central courtyard. Campion-Smith explains: "Natural daylight is an important part of the overall design and the courtyard is a big part of that, with huge windows looking onto it.

"This means the courtyard is also part of the building's way-finding strategy because you can orientate yourself by it from most parts of the building. It's a pleasant backdrop but it's also a space that people can interact with and enjoy – there will be trees, benches and paths that you can use as shortcuts to get one from one area to another. The cafe space will also spill out onto it."

The New QEII project has joined with new-build schools Continued overleaf... 'Natural daylight is an important part of the overall design and the courtyard is a big part of that, with huge windows looking onto it'

Helen Campion-Smith, architect at Penoyre & Prasad



Artist's impression of the central courtyard

BUILDING

'The New QEII project has joined with newbuild schools and universities, local government buildings, shops and housing developments [...] contributing to a scheme called Design for a Future Climate'

and universities, local government buildings, shops and housing developments that are contributing to a scheme called Design for a Future Climate, which is being run by the Technology Strategy Board (part of the government's Department for Business, Innovation and Skills). Each construction project has tried to take on board modelling of how buildings would function against climate change that's predicted for 30-40 years from now.

One weather shift that's anticipated in decades to come is increased rainfall. The New QEII's design response is something that's increasingly part of new building developments. Barry Jenkins, Director of Guildhouse UK Ltd, explains: "It's predicted that flash floods that were a once-every-50-years event will be much more commonplace. To tackle this, new building projects are including a sustainable underground drainage system to control discharge of surface water into the aquifer.

"With the New QEII the target was to contain 65 per cent of rainwater within our site before it is allowed to discharge into public drains. To do that the car parking areas and the central courtyard will have semi-permeable materials under them designed to capture water, retain it and then allow it to slowly dissipate." This and other features of the New QEII mean it should still be sustainable in the different weather conditions of the mid-21st century.

Along with the many other design details that take into account the everyday needs of the people who will use the hospital, the prognosis is good for the New QEII.

As Jacqui Bunce says: "I think it's a design Welwyn Garden City people will be proud of. It's innovative, it's not just a brown box and it will deliver the services they need in a pleasant environment – which is important for both the people visiting the hospital and those working there."

Landlord:

Assemble Community Partnership

Tenant:

Community Health Partnerships

Commissioner: East & North Herts Clinical Commissioning Group

Main contractor: Mansell

Architect:

Penoyre & Prasad

Landscape architect: Macfarlane Wilder

Project manager: Tropus & Spicer

Quantity surveyor: Tropus & Spicer

Structural engineer:

M&E engineer: Building Services Design



The masterplan of the new development

Blackpool Hospital benefits from relationship with Rada

ashroom controls manufactured by Rada, a pioneer of both mechanical and cutting edge digital washroom technology, have been supplied to the Blackpool Teaching Hospitals NHS Foundation Trust in Lancashire as part of an ongoing relationship.

This year has seen Rada V12 showers, Rada Thermotap-3's and wall mounted Rada Safetherm units supplied extensively at the Stroke and Observation Unit of Blackpool Victoria Hospital as part of the Trust's commitment to providing patients and staff with purposefully designed, efficient washroom and showering facilities.

Rada V12 shower valves regulate flow to allow for increased water savings and are Buildcert TMV3 scheme approved. The exposed V12 option features Rada's Insutech™ technology, which reduces the surface temperature to a safe level.

Also installed in large numbers as part of the Stroke and Observation Unit project were Rada's wall mounted Safetherm Clinical Taps. Its

innovative design minimises water retention in the body and spout for improved bacteria control and feature a sequential long lever control for easier use under hospital protocols and improved hygiene.

Safetherm Clinical Taps were designed with nurses and other hospital staff in mind, with a 120° arc of movement utilised in its operation allowing users to operate the lever control easily with their elbows. As with the Rada V12 shower, Rada Safetherm Clinical Taps feature Insutech™ technology and are Buildcert TMV3 approved.

"Our relationship with Rada goes back many years. This consistency enables us to access ongoing specialist support and provide the highest quality products and systems for the benefit of patients, staff and visitors."

Bill Haughton, Technical Officer at Blackpool Teaching Hospitals NHS Foundation Trust





Please visit www.radacontrols.com for more on Rada's healthcare offering

Simply install, network and ventilate



Bringing together the best elements from its world-class heat and smoke ventilation range, GEZE UK has created a collection of versatile window drives, which share a uniform, discreet design and innovative Smartfix installation system. An architect looking to specify a variety of ventilation drives that meet the individual demands of each application, can choose from GEZE's range safe in the knowledge that they will complement each other and integrate easily into the overall building management system. Providing a flexible, building-specific ventilation solution,

the entire range uses state-of-the-art integrated control technology that can be easily configured and networked.

Tailor-made wetrooms from On The Level



On The Level, UK manufacturer of patented underfloor wetroom shower trays, offers tailor-made, level access wetroom solutions to provide safe and attractive showering options. For example, instead of a tiled floor, a non-slip sheet vinyl can be installed to reduce the risk of slipping and safety can be further enhanced with accessories such as grab rails and a seat. Easy to install, these highly durable birch ply trays are guaranteed for 25 years and are available in stock or bespoke sizes. The trays are supplied ready to lay on any substrate including timber, screed and floating floors.

01525 373202 www.onthelevel.co.uk



Pearlazzo features in Cyberknife facility



Polyflor's smooth vinyl flooring range, Pearlazzo PUR, has been specified and installed in the new Cyberknife Radiosurgery facility at the Queen Elizabeth Hospital in Birmingham. The CyberKnife System is the world's first and only robotic radiosurgery system designed to treat tumours throughout the body non-invasively.

Purple Crush and Lilac Bloom were selected from Pearlazzo's 24 colour options and used to mark out the path of the machine, creating a safety zone. Pearlazzo PUR uses distinctive tonal chips and pearlescent flakes which are blended and fused into a solid base colour to create a distinctive decorative finish.

01617671111 www.polyflor.com

enq.156

Door closer can enhance care home safety



Powermatic* Free Swing is the latest controlled, concealed door closer to be introduced by Samuel Heath. Connected to the building's 24-volt fire alarm system, the new door closer can function in the same way as the company's popular Powermatic* door closer or can allow a door to be operated manually and left open as

desired. When the fire alarm is activated, or there is a power failure, the inactive door closer becomes active and the door is closed automatically at a controlled rate. Concealment ensures that the appearance of doors and interiors is not spoiled as well as other benefits, including a reduced risk of damage from vandalism and suitability for use in anti-ligature measures.

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Polypipe tops the class in new College



A new centre for environmental technologies at East Kent College has benefitted from a bespoke geocellular drainage solution from **Polypipe**, a UK manufacturer of plastic sustainable drainage and water management products. Working closely with groundworker Stevens Construction from an early stage, Polypipe created a geocellular soakaway structure underneath a car park of the College's new building. Polypipe's new Polystorm Access and Inspect products were used in conjunction with Polystorm-R modular cells to create a 96m³ structure. The soakaway

tank will be used to retain surface water collected from the new study centre and disperse it at an even rate into the surrounding soil.

Brett Landscaping in social housing project



Brett Landscaping was selected to provide permeable paving for a significant social housing project in Kingston-Upon-Hull – an area where the use of building materials that support flood prevention is critical. PermCalc, Brett's integrated design and costing software for permeable paving, was used to analyse the proposed site based on struc-

tural and hydraulic data. As a result, Brett was able to provide a detailed breakdown of the project's requirements and costed recommendations. Brett supplied permeable Omega Flow paving in two variants – the central paving areas supplied in 80mm Brindle blocks and borders specified in 60mm Charcoal. This design offers greater permeability, as well as providing visual contrast.



enq.160

Flood mitigation for the future, today

A recent report from the Intergovernmental Panel on Climate Change (IPCC) puts human activities as the most certain driver behind our changing climate. As a result, we are warned that we should expect warmer and wetter winters, with extreme rainfall events. Our built environment is now in the spotlight, as the most effective, long term and sustainable solutions to combat the effects of flooding become vital. Thankfully, innovations in flood mitigation have come a long way since the humble sandbag and intelligent passive solutions for our future are now out there. Katherine MacBeth, marketing executive at UK Flood Barriers Ltd, offers an insight

ast year, following the driest March for 59 years, we then experienced the wettest April since records began and heavy rain resulted in extreme flooding scenarios, due to the already dry ground. Many of those who believed they were immune to flooding, due to their distance from coastal or river areas, had their homes devastated by flash flooding. Overall, every one in five days in 2012 saw localised flooding and more than 4,500 properties affected.

It is therefore imperative that new homes are sustainable and flood-proof and that this is factored into the initial planning stage. The industry is embracing the Code for Sustainable Homes with its call to reduce carbon emissions as well as energy and water wastage. However, one of the other categories in the code measures sustainability in terms of 'surface water runoff', which is just as important a consideration. Although many developers may feel their projects are not at risk as they are not based near rivers or the coast, this is irrelevant; flash floods are far more likely to cause devastation, are highly unpredictable, and can affect anywhere.

Ensuring new-build properties comply with the Code for Sustainable Homes in terms of flood prevention need not be complicated or expensive. The housing industry needs to take responsibility to prioritise flood protection by taking a number of small steps to ensure that these new homes are safe.

Solutions for flood defence are not complex; innovations are now designed to be integrated into the fabric of infrastructures and to work without the need for intervention. Passive flood mitigation systems require no human intervention to deploy and activate solely by the power of the flood water, providing the optimum solution at zero operational cost.

Airbricks in particular are often one of the first points of entry for flood water and can allow up to 5,000 litres of water to enter a property every hour – the equivalent would be leaving the garden hose on, inside, for over four hours. Passive airbrick replacements are available, which allow air to circulate under normal circumstances but under flood conditions a self-activating gate will automatically engage, preventing any water entering the property, returning to its original state when the flood water subsides.

One of the most unpleasant forms of flooding can come with rising sewer levels. This risk can be easily remedied with products that again use the power of the water to self-activate. In the



event of water surging back through the drainage in flood conditions, a non-return valve makes use of a gate which automatically lifts to shut against a seal and prevent backflow past the valve. However, when not in use, the valve is always open and as such allows solids to flow freely and unrestricted.

Alongside these smaller passive property measures, solutions also now stretch to barriers which lie dormant in normal environmental conditions, but are self-activated in a flood situation. These defences are increasingly being embraced as an effective, sustainable solution for properties and communities requiring safe, reliable defence that will not be an eyesore. These self-closing flood barriers can be built along rivers, coastlines and other areas of high risk to protect communities.

Future climate change and continued urbanisation is expected to raise the damage cost from surface water flooding by 60-220 per cent by the 2080s and the number of properties at risk of flooding is expected to quadruple over the next 20 years. It is imperative that new buildings are sustainable and flood-proof and that this is factored into the initial planning stage. Passive flood defence offers the ideal solution, providing the least intrusive and most cost-effective answer to the problem of preventing future economic and personal damage from flooding.

'Passive flood mitigation systems require no human intervention to deploy and activate solely by the power of the flood water'



Property level passive barrier installed underground, ready to deploy

Aquobex announces plans for its new Aquobex Resilient Property M at BRE

quobex has announced that it will be building a new flood resilient property at BRE, Garston. The house, which has been designed by Baca Architects, will incorporate some of the latest solutions for keeping flood water out of properties as well as many cutting edge solutions that can be utilised in interior fit-out to minimise the damage and disruption should flood water enter a property.

Aquobex's Managing Director John Alexander said: "We are delighted to have the chance to develop this property at BRE, which is as the forefront of showcasing new approaches and technologies in the construction market. Flooding is an ever increasing risk for many as a result of both climate changes and urban development.



By showcasing some of the relatively simple measures that can be incorporated into both new built and retrofit projects we hope to encourage both designers and builders to think about incorporating flood resilience measures wherever possible."

Featuring flood protection products from a range

of suppliers, the Aquobex Resilient Property™ will showcase some of the latest innovative materials including nanoShell, Dragonboard, Sealwise and cavity wall insulation.

The live demonstration building, which is due for completion in the summer of 2014, will highlight the deficiencies of some current building materials and convey the effectiveness of flood doors and barriers, flood resistance interiors, sewer maintenance and FOG (fats, oil and grease) prevention. The Aquobex team will also showcase their expertise in rainwater harvesting and SUDs (sustainable urban drainage systems).

The Aquobex Resilient Property™ is still at the design stage and the company is keen to encourage other businesses and organisations with specialist knowledge in this area to get involved as a sponsor.

"In addition to having their name associated with this exciting project, sponsor companies will be able to use the house for their own sales and marketing events and activities," explained Alexander. Anyone interested in finding out more about getting involved should contact John Alexander on 01923 518582 or email him direct on john.alexander@aquobex.com

Call Aquobex today on 01923 518 582 or visit the website www.aquobex.com

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Gravelrings make gravel surfacing easy



Gravelrings from **Kinley Systems** is a perfect system for creating fully porous and stabilised loose aggregate drives, parking areas and paths and removes the problems of rutting and migration, normally associated with gravel surfacing. The 25mm deep profile eliminates excess use of gravel, while still providing a durable structure that has

load bearing capacity in excess of 100 tonnes. The lightweight panels are easy to install and can be simply cut to shape where required. Gravelrings can be installed on porous or non porous sub-base materials.

01424 201 111 www.kinleysystems.com

enq.165

Levolux dresses up Primark



Thanks to a re-design by 3DReid architects, Newcastle city centre's Primark underwent a dramatic transformation, shedding its concrete façade in exchange for one that is ultra-modern, ornate and energy efficient, featuring a radical external screening solution by Levolux. As one of the UK's leading solar shading specialist, Levolux was invited to develop an integrated screening

solution that wraps around two elevations. The solution comprises both solid and perforated aluminium fins and panels, with additional roof screening louvres, designed to give the Primark store a new, ultra-modern identity. Perforated panels provide shade to glazed openings, which improves comfort levels for occupants, while reducing the need for air-conditioning.

Roofshield used in complex roof



This unique and innovative private dwellinghouse in Aberdeenshire has used Roofshield breather membrane, supplied by the A. Proctor Group Ltd. On such a complex roof, the roofing contractor, John Rhind Slaters, wanted to make sure only the best vapour and air permeable membrane was used. Roofshield, while as easy to install as traditional

roofing felt, has unique vapour and air permeability characteristics. This allows even the most complex of pitched roofs to breathe without the need for traditional air gaps or secondary venting products, giving a robust and dependable solution that can be specified with confidence.

01250 872261 www.proctorgroup.com

enq.167

EQUITONE is ideal for Newcastle College



Being a modern and durable material that retains its appearance made fibre cement EQUITONE [natura] and [textura], from Marley Eternit, the ideal choice for Newcastle Sixth Form College's modular architectural facade. EQUITONE [natura] panels allow the texture of the fibre cement to show through, which gives the building a unique, attractive visual appearance. Light

coloured EQUITONE [natura] panels were predominantly used for the facade along with feature panels of EQUITONE [textura] with its textured surface finish. An EQUITONE facade solution has an installed life expectancy of at least 50 years, requires no routine maintenance and is resistant to rot and fungi, making it a highly cost effective material over the whole life of the building.

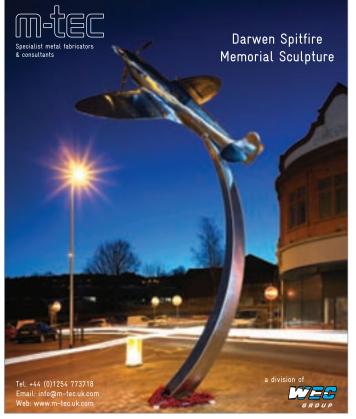


Kemperol delivers a factory finish

The advanced chemistry of **Kemper System's** innovative Kemperol V210 cold liquid-applied waterproofing membrane will help ensure efficient manufacture of fluorochemicals and fluoropolymer materials thanks to a roof refurbishment project at AGC Chemicals in Lancashire. The concrete slab roofs on two production site buildings at AGC Chemicals had asphalt surfaces that were widely failing with a potential risk of leaking into the building below. This was evident by patches of blistering. Moreover, the seal around a number of redundant roof lights had also failed so AGC opted to refurbish the roofs as part of a general upgrade to the buildings and Kemperol V210, a cold liquid-applied waterproofing membrane from Kemper System, was chosen as a solution that could be applied quickly with minimum remediation to provide a tough, flexible and long lasting surface.

019 254 45532 www.kempersystem.co.uk





ena.170

GEZE doors are tonic for London school



When asked to supply and fit new doors for the London School of Hygiene and Tropical Medicine, GEZE UK had the challenge of modernising the entrance of a leading facility to ensure thousands of people safe passage every day. GEZE created a bespoke design using the Slimdrive SC GGS, an automated all-glass curved sliding door with high grade stainless steel fittings, and a glass roof. It was fitted to the existing entrance to create an elegant semi-circular lobby and the curved sliding glass

doors ensured more space and light. The main advantage of the Slimdrive SC GGS in listed buildings is that it removes the need for unsightly rails, maximising transparency and enhancing the detail of the building.

SIMONSWERK achieves academy status



The West Wing of London's Royal Academy of Arts has been renovated and upgraded for use by the New York-based Pace Gallery. High spec hinges from SIMONSWERK UK have helped Pace to set up its offices at the gallery in a compact space without compromising on working surroundings. The design placed high demands on the door fittings as Steve Welsh, contract manager

at Suffolk & Essex Joinery explained: "The size and weight of these doors required very heavy-duty hinges. The architect also required all the fittings to be concealed to give a completely clean finish within the classical interior of the Royal Academy building. Tectus hinges were the obvious choice...."

P C Henderson used in architect's new build



P C Henderson's sliding door hardware systems were specified by Penton Architects for the central dining space and garage of the architect's own rural new build. Adam Penton commented: "The large sliding doors to the central dining space utilise P C Henderson's lift and slide base system, which was

specified for its performance and ability to be housed into a bespoke glazed timber screen and cill system." The sliding system was ideal for the project as it accommodates large door leaves of up to 3m x 3m. The hardware system also provides superior weather resistance due to its bottom pad and anti-derail plate, which provides a secure seal between the central meeting point stiles and the threshold.

0191 377 0701 www.pchenderson.com



SWA members ready for Part L revisions



Members of the Steel Window Association (SWA) have invested further in the development of the W40 system in order to keep pace with the expected revisions to Part L of the Building Regulations. It is anticipated that the requirement for the energy performance of windows will be further reduced, meaning that to demonstrate compliance for certain applications manufacturers of steel windows are now ready to fit triple glazed units within the rugged, but elegant steel frames. The SWA has

a continuing programme of product development, which has seen the energy performance, weather-tightness and security of its W40 and other systems steadily improved over the years.

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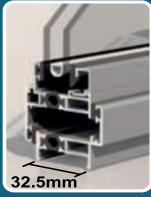
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W30 steel windows suit lofts & apartments



The latest W30 steel windows available from members of the **Steel Window Association** create some of the special character found at warehouse apartments and New York style lofts without sacrificing physical performance. Manufactured using the 'greenest' generation of steel sections, W30 offers all the traditional steel window qualities of strength, security and the distinctive slender

sight-lines, which optimise daylight transmission, while also capable of meeting the latest revisions to Part L of the Building Regulations. The Steel Window Association has overseen a sustained development programme that has delivered a series of improvements to the energy performance of the frames.

Eircom gets a facelift from Remmers



With the exterior render of the Eircom exchange building suffering from a high degree of cracking, the Remmers Elastoflex system was chosen to repair it and give a high degree of finish to the exterior. Repairs were carried out using Betofix RM, a fast cure feather edge repair mortar, prior to application of the

coating system. The Elastoflex system incorporates mesh reinforcement within a highly elastic coating, compliant with EN1504 – surface protection coatings. The coating has good water vapour diffusion characteristics, is highly water repellent and highly resistant to the diffusion of carbon dioxide.

0845 373 0103 www.remmers.co.uk

eng 180

Minus 7 – the true hybrid energy harvester



The Minus 7 hybrid energy harvesting system is a solar-assisted heat pump technology. The NCM (SAP) identifier for this product is Minus 7 SEP3G10 1/2/3. It is a renewable energy system made up of an endothermic roofing system, a solar energy processor and a large thermal store. The system uses an endothermic tile plank to form a weather-tight interlocking roofing system, made from a 2.5mm thick, uniform profile, aluminium extrusion, dressed in a powder-coated, hard-wearing finish. The endothermic tile planks are flooded with a heat transfer fluid which absorbs heat energy and solar thermal energy.

The system provides hot water and heating for buildings. It is suitable for new-build or deep refurbishments, where a new roof is required. It is designed to keep a five-bedroom house at a comfortable temperature of at least 21°C even in the worst case scenario in mid-winter. However the system is capable of servicing up to three dwellings at once making it highly suitable for housing associations as well as commercial buildings. Fully UK manufactured, the roofing component is expected to last for in excess of 50 years and the solar energy processor will last for in excess of 20 years. All components are fully recyclable at end-of-life.

01922 419405 www.minus7.co.uk

enq.181



Smart completes major London Landmark



The ground floor areas to four blocks of Canary Wharf's Landmark development were installed with Smart Architectural Aluminium's MC Curtain Walling system. With in excess of 1,600 sq m of curtain walling installed, including Smart Wall commercial entrance doors, the system perfectly completes the development. In a polyester powder coated grey finish, the slim profiles of the Smart MC Wall curtain walling system allow maximum light into

both single and multi-storey buildings, with a special feature transom cap with concealed mullions for uninterrupted 'glass' joints.

01934 876100 www.smartsystems.co.uk

enq.183

Aluminium welded roof spans the Thames



M.R. Site Services was called in to provide the highest quality in standing seam welding for an aluminium roof as part of a £550 million renovation of the historic Blackfriars Station. M.R. Site Services brought water-tight welding and technical expertise to the innovative roof, which is

designed especially to integrate with and support the photovoltaic panels. The company overcame the challenges of the location and site access to create a strong, durable and corrosion free welded roof to support the solar panels covering its surface. Malcolm Bryan of Kalzip commented: "The welding has been very good, and very high quality. M.R. Site Services are a good, dependable and reliable company, who do what they say they will do."

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CR Laurence is proud to announce its GG2014 Glass and Glazing Catalogue is out now. Containing over 180 pages of the finest glass industry consumables, it highlights the company's commitment to providing customers with the

widest range of products available from stock. Inside the catalogue are silicone sealants, glass handling tools, glass cutting hardware, glass processing, glazing accessories, PPE, glass hardware and much more. The GG2014 will be your number one reference for all your glass and glazing requirements. Contact CRL today to request your free copy of the Glass and Glazing Catalogue.

00 800 0421 6144 www.crlaurence.co.uk

enq.186

The attraction of magnetic glass



Gx Glass is launching MagnX*, a new range of magnetic backpainted toughened glass and dry wipe memo boards. It allows documents to be 'pinned' to the glass surface using magnets, which adhere to metal backed glass. The glass surface is ideal for writing on with dry erase marker pens.

MagnX is a bespoke Gx Glass product, which is available as an embedded, double-sided or wall-mounted solution allowing flexibility for most applications and environments. The product is easy to clean, hygienic and will not wear out unlike conventional dry wipe boards. At the end of the lifespan, the component parts can be fully recycled.

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Comar's glazed solution to new London Tesco



Comar Architectural Aluminium Systems with Ridgway Architectural Glazing, recently completed a new Tesco Superstore in London. The design vision was to create a continuous glass facade to the new superstore. To ensure the design brief could be achieved, Comar

6EFT was selected as it offers architects a flexible system, providing a structurally glazed solution with options for facets, concealed vents and an extensive range of profiles that cater for large structurally glazed panes. All Comar approved fabricators are required to have the technical expertise to attend pre-site meetings and provide detailing. This ensured the project ran smoothly and met site deadlines.

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

enq.187

Ritec International provides clear solution



Georgia's new parliament has opened to a fanfare of acclaim with all of its glass treated with the ClearShield Eco-System™. Ritec's representative in neighbouring Turkey, Kozmos Cam, was brought in to

treat all 11,500 sq m of the building's glass with the ClearShield Eco-System¹⁷. Early into the construction project, the glass was installed into its aluminium frame. The second stage was to protect the glass from future moisture, alkaline and dirt. ClearShield* was used to transform the glass into 'low-maintenance' glass, which will make elements easier to clean and provide resistance to staining and discolouration. The result has been met with universal acclaim.

020 8344 8210 www.ritec.co.uk

enq.189



New window gets top marks for ventilation

Tests undertaken on a new ventilating window have shown that the window allows for natural ventilation, improved air quality and omits the need for mechanical plant for ventilation and cooling in classrooms. Called Rapidvent, the window has been launched by a leading UK design and manufacturing company, Britplas. Test results of a technical performance study undertaken by global design, engineering and management consultancy, WSP, were overwhelmingly positive and showed that compared with standard or restricted top hung windows the Rapidvent will deliver:

- A 10°C reduction in peak and average internal temperature
- Ten times the natural ventilation rate
- 50 per cent lower carbon dioxide concentration
- Mechanical plant saving up to £5,300 per classroom
- Energy saving up to £120 per classroom, per year
- All requirements of BB101 achieved passively.

01925 824317 www.britplas.com

Features and benefits of structural frameless glazing

Structural glazing has become more prevalent in cross-sectional architecture and building in recent years but what exactly is structural glazing? Rebecca Clayton, technical sales executive at IQ Glass, explains more

he first major difference between this type of glazing and traditional styles is the lack of supporting frameworks. Here the glass supports its own weight and form, held together with structural silicone and supporting brackets and by a higher specification and thickness of glass. All fixings and supports are hidden wherever possible.

This clean, frameless finish is the reason that structural glazing is becoming the preferred method of fixed glazing across the residential and commercial glazing industry. Architects and designers recognise the improved visual appearance you can achieve when you remove the framework from glass structures.

Roofs, walls, floors, balustrades and stairs can be designed, manufactured and constructed from visibly frameless glass.

Obviously when using frameless glazing the glass specifications used are of a higher quality. Frequently toughened glass panels are laminated together with PVB interlayers to create stronger, safer glass that can hold its own shape and weight.

Glass beams are made using this technique, layering three to five layers of toughened glass together and laminating the panels using transparent interlayers. This creates a glass beam of massive strength able to support all spans of glass roofs. Vertical elements of glazing can be supported by the glass beam's vertical cousin, the glass fin. These elements can support a vertical glass panel in a glass wall and also take the load of a glass beam from up above.

The dimensions of structural glazings are largely determined by the manufacturing limitations of glass within the UK. The maximum dimensions of a piece of toughened glass in the UK is $6m \times 3.2m$.

Where larger glass units are used, or where a structural glass element is required to take a heavier load, then higher specification interlayers can be used within the toughened laminate panes in order to improve the strength and durability of the glass construction. These stronger interlayers are generally used where glass will be supporting a load.

These higher specification interlayers are always recommended for structural glass balustrading. Frameless glass balustrading creates a beautifully minimal safety support either internally or on an external area of a build. Frameless structural balustrades are generally constructed from two pieces of toughened safety glass, which are then laminated together using the

Continued overleaf...



Frameless glass beams to glass roof

Silicone jointed structural glass wall



'Roofs,
walls, floors,
balustrades
and stairs can
be designed,
manufactured
and constructed
from visibly
frameless glass'

clear interlayer; the glass panel is then framelessly fixed below the ground surface at the base of the system. These high specification interlayers greatly increase the strength of the one fixed glass construction; there are numerous video examples of this on the web but when a single sheet of toughened glass is broken it breaks down into small, largely blunt pebbles of glass. When laminated glass is broken the interlayer between the two glass panels adhere the broken pieces together meaning that although the glass balustrade will bend and fail you do not get any falling pieces of glass. But when you use a higher specification of interlayer in these units the interlayer increases the strength of the glass panel so that, although the individual glass panels will break under the load of impact, the interlayer holds the units together and maintains their form, so the safety barrier

of the structural balustrade is maintained.

This laminated construction technique is also used to design and manufacture walk-on glass units.

Seamless structural glazing is used in vertical elevations internally or externally to create a clear glass wall where glass units are silicone jointed together in parallel. When used on external elevations using double or triple glazed units, the act of hiding all supporting elements has an additional positive impact on the thermal efficiency of the construction.

The overall U-value of glass constructions is known as the Uw value. There are various elements of the glass construction that contribute and effect the Uw value, the most important of these are the Ug value, which is the centre pane thermal performance of a glass unit, and the Uf value, which is the thermal performance of the framing and fixings. There is generally a reduction in thermal performance from the Ug value to the overall Uw value due to loss of energy through any framings and fixings.

Due to the inherent aesthetic characteristic of frameless structural glass installation all fixings are hidden and insulated by the building surround, meaning that the thermal efficiency jump between the thermal performance of the glass panel and the overall thermal performance of the installation is reduced. Therefore, the thermal performance of fixed structural glass is improved merely by the drive to create a frameless contemporary glass installation.

ena.192

VEKA gets an A+ (or three) from the BFRC



VEKA has updated its WER calculators to reflect the new BFRC SEL A+ scheme. The BFRC is now accepting applications for the new A+ band, which applies to windows only. Any BFRC A rated product which achieves a rating index of 10 or more can be upgraded to an A+ and VEKA is one of the first major systems companies to be granted the new A+ licenses. VEKA's Matrix 70 and Matrix Fully

Sculptured casement windows and Vertical Sliding systems are now available with a rating of A+ thanks to the Simplified Energy License (SEL) Scheme. The SEL initiative from the BRFC combines the benefits of a simpler, more flexible rating system with stringent control and auditing.

01282 716611 www.vekauk.com

enq.193

Reynaers launches clearest sliding system yet



An infinite view combined with ultimate performance is offered with Hi-Finity – the new, ultra-slim and elegant large sliding door system now available from Reynaers Aluminium. The glazing system is designed to offer an uninterrupted view and seamless integration between interior

and exterior without any compromise on performance. The system provides a high level of strength and durability, supporting large glass panels up to a weight of 500kg. High strength, high thermal insulation and high security combined with a continuous view, make Reynaers' Hi-Finity sliding door system an ideal solution for low-energy contemporary architecture.

NEACO's curved glass balconies featured at prestigious development



NEACO's Spectrum balustrade has been specified with curved glass panels to form some stylish corner balcony terraces at Dove Tree Court, a luxury development of 33 assisted living apartments in Shirley, near Solihull, from McCarthy & Stone.

Richard Robinson, buyer at McCarthy & Stone, commented: "NEACO provided a full design and installation solution with close involvement in site meetings throughout the specification process. They were very responsive to our requests and proactive in their approach to delivering our design brief. The installation has been completed to a brilliant standard and I'm sure that we will be working with NEACO again on future projects."

NEACO's National Sales Manager, Richard Richardson-Derry, said: "NEACO's curved glass panels are one of our most visually impressive infill options. Their design and installation alongside some of our straight-panelled balconies at Dove Tree Court is certainly in keeping with the superior quality and prestige of this development and NEACO are delighted to continue our relationship with one of the UK's leading assisted living developers."

Efficient window for medium to high-rise home



A new energy efficient, easy-to-clean, fully reversible window is now available from profile manufacturer **Profile 22**. Ideal for both high and medium-rise applications, and for when space and access is restricted, the new window has a rotational 180° pivot action allowing residents to safely clean the outer window panes from inside their home. It has been designed with a five chamber system and can incorporate argon filled triple glazing,

which enhances thermal performance. The product achieves a U-value of 0.8 and an A+ rating under the Window Energy Ratings scheme. The fully reversible window can also incorporate triple seals maximising thermal performance.

01952 290910 www.profile22.co.uk

enq.196

Sustainable solution for reusable water



GPS PE Pipe Systems has launched Enviro-Line, a PE pipe designed specifically for reusable water supplies. A high performance pipe suitable for rainwater harvesting, grey water and irrigation applications, it been launched to help specification of sustainable commercial and residential developments, providing a flexible and durable

reusable water infrastructure that avoids the risk of cross contamination with potable water supplies thanks to its black with green stripe colour coding. It offers all the advantages of PE, including a 100-year+ service life. It is supplied in a range of sizes to suit any reuseable water pipe installation, and provides a lightweight, corrosion-free option that's easy to install, maintain and is leak-free.

VEKA UK Group shortlisted for four awards



The VEKA UK Group has been listed in four categories at the G13 Awards: Commercial Project of the Year, Environmental Initiative of the Year, New Product of the Year and Promotional Campaign of the Year. Dave Jones, the Group's MD, commented: "The G13 Awards provide a fantastic opportunity for businesses in the glass and glazing industry to be recognised for their hard work

and outstanding achievements, and to be shortlisted for four awards is yet another incredible accomplishment." The Group's nomination for the Environmental Initiative follows a massive 2,208 tonne saving of carbon since 2008.

01282716611 www.vekauk.com

enq.198

Rain cups and chains from Yeoman Rainguard



Yeoman Rainguard has added attractive rain cups and chains to its range of rainwater systems. Manufactured from copper, one of the few metals that is fully sustainable, the rain cups and chains prove to be an environmentally friendly, naturally durable, decorative addition to a project. Yeoman Rainguard copper rain chains and cups are available in a wide range of designs and profiles making it the perfect finishing touch on any house, conservatory or garden building. For further details on Yeoman Rainguard's colour options and products visit the website.

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eng. 200

Yeoman Rainguard has the right solution



Yeoman Rainguard has responded to customer demand by adding the TX Cast Iron Soil Pipes to its range. Low maintenance and cost effective, Yeoman Rainguard TX Cast Iron Soil Pipes can save substantially on labour and installation time due to the push socket jointing system which eliminates the need for special jointing tools or equipment. Designed to complement Yeoman Rainguard Cast Iron and Aluminium XL rainwater systems, the TX range is a perfect choice for new build, conservation and listed building projects.

Yeoman Rainguard can also supply rainwater systems in aluminium, GRP, cast iron, copper, zinc and stainless steel.

A. Proctor Group beats hard to treat walls



Working with Historic Scotland and the Energy Savings Trust, the A. Proctor Group supplied Spacetherm Aerogel to projects undergoing fabric improvement for energy efficiency in traditional buildings. The Wells o'Wearie Cottage is a building from the 19th century. In this project a 10mm Spacetherm aerogel blanket was used, secured to the wall behind an expanded mesh

sheet and fastened with thermally de-coupled fixings. Hard to treat walls can be overcome utilising Spacetherm, an ultra thin insulation for thermal upgrades, saving valuable space without altering the exterior fabric of the building. Its remarkable performance is achieved through the use of flexible aerogel blankets.

01250 872261 www.proctorgroup.com

Outstanding Kingspan TEK® school extension

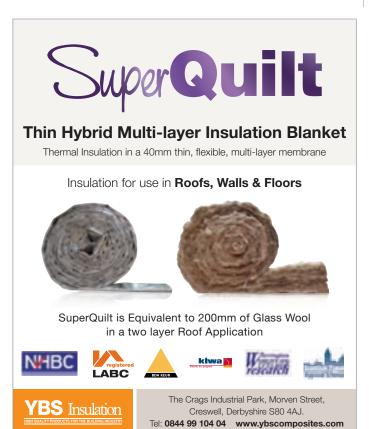


The Kingspan TEK® Building System has delivered outstanding results against a design and installation deadline of just four weeks for a stylish new primary school extension in Kent. Given the time restraints, the structural insulated panel (SIPs) construction of the Kingspan TEK® Building

System made it a desirable solution. Its factory pre-cut design ensured a smooth, predictable installation process with minimal site waste, allowing a small team to complete on schedule. The Kingspan TEK Building System panels comprise two layers of Oriented Strand Board type 3 (OSB/3) either side of a highly insulated core and at All Faiths' they helped attain a final roof U-value of just $0.10~\rm W/m^2.K$.

01544 387384 www.kingspantek.co.uk

enq.203



Top marks for Kooltherm Cavity Closer



Kingspan Insulation's Kooltherm Cavity Closer has been installed as part of a new £5 million school in Kidderminster. Energy efficiency was a priority for the school and Kingspan Kooltherm Cavity Closer formed a key part of this solution, contributing to the insulation envelope with a thermal con-

ductivity of 0.022 W/m·K and preventing thermal bridging around the windows and doors. By eliminating thermal bridging at these openings, Kingspan Kooltherm Cavity Closer also helped the building meet requirement B3 of the Building Regulations for England and Wales regarding internal fire spread.

01544 387384 www.kingspaninsulation.co.uk

ena.204

BRE A+ for Kingspan Tarec



The outstanding environmental performance of Kingspan Tarec's Kooltherm* Pipe Insulation has qualified it for a best possible BRE Green Guide 2008 Summary Rating of A+. To evaluate the environmental impact of products, BRE Global carries out full life cycle assessments using its 2008 Environmental Profiles Methodology. This data is then used within the Green Guide rating system to classify a product's

performance in a number of key areas and to award a summary rating from A+ (best) to E (worst). With its Green Guide A+ rating, the Kooltherm Pipe Insulation solution can contribute towards the award of several BREEAM credits.

01457 890400 www.kingspantarec.com

enq.20



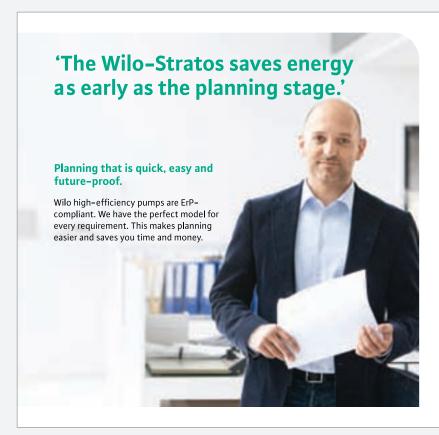
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Carron has just launched the Heritage Range of four brand new enamel colours. Comprising of Sage Green, China Blue, Ash Grey and Egg Plant, the Heritage Range of colours are available on all stove models from the petite 4.7kw to the impressive 11kw. Carron is a highly skilled manufacturer, whose traditional methods and attention to detail have created some of the finest stoves available. Combining warmth and style, a cast iron stove makes a stunning addition to any room. enq.312



its HEXATHERM® XFLOOR insulation on the Fisher House project, a Vinci Construction residential building built as part of the Queen Elizabeth Hospital complex in Birmingham. HEXATHERM® XFLOOR extruded polystyrene was specified for this project due to its high compressive strength properties that make it ideal for flooring applications. There are many benefits to using the insulation, not only is it strong but also water resistant and eco-friendly.



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W: www.spacealtherma.co.uk

enq.303



© 2013 Space Airconditioning plc. SA101630-11.13 *Subject to conditions :LT = low temperature **Renewable Heat Incentive

AET continues to develop unique technology



Meeting current market requirements for energy efficient products, AET has developed a fan terminal unit that sits at the heart of the AET Flexible Space Underfloor Air Conditioning system. Fitting into a standard 600mm floor void, it can provide up to 1,500m³/h of cool air from a single unit, which

can minimise 'hot spots', due to specific grilles which allow direct air to selected points while running at a low speed and noise level. Compared with large central plant systems, energy savings have been recorded at 20-30 per cent. Floor based systems use less fan power as they operate at low pressures, with virtually no ducts. They use minimum pipe work and provide high standards of indoor air quality.

01342 310400 www.flexiblespace.com

enq.305

Housing Trust reduce energy consumption



The Liverpool Housing Trust has used Atlantic Boilers' VF range of boilers to significantly reduce energy consumption at its Friendship House Building, which contains 31 flats with resident staff support, lifts, lounges and guest facilities. Carried out with minimum interruption in heating services, the original boilerplant

was replaced with two of the Atlantic VF 100kW, all stainless steel, pre-mix gas, low NOx, condensing boilers. In the following 12 months, the energy consumption was reduced by more than 25 per cent. Building management control was also added, increasing the energy saving to over 40 per cent.

Evance lead the way with small wind turbines



The UK market for 1.5kW-15kW wind turbines grew by nearly 40 per cent in 2012. The majority of customers chose the Evance R9000 turbine resulting in Evance growing ahead of the sector, capturing market share, with year-on-year installations up by 133 per cent. "Last year we installed half of the total

sold nationally – one in every two turbines were Evance R9000s," commented Kevin Parslow, CEO. Evance find that customers typically turn to small wind as an alternative source due to rising energy costs. "One of the key reasons that we succeeded in growing our market share from 33 per cent to 50 per cent last year is the sheer range of customers for whom our R9000 turbine appeals."

01509 215669 www.evancewind.com

enq.307

Birmingham turns over a new leaf



The façade of the new 11 storey, £189 million Library of Birmingham that was designed by Dutch architects Mecanoo, has been likened by many to a wedding cake. Ensuring that the building will live up to expectations includes ensuring the consistent and reliable delivery of hot and cold water supplies. **Grundfos Pumps** were

selected to work with contractor Cofely GDF Suez to produce a long term robust solution that would meet all the demands. The 38 Grundfos pumps from the workhorse like NB range of sturdy end-suction pumps and CR multistage centrifugal pumps, both of which are renowned for their efficiency and reliability, were carefully selected to efficiently meet the demands of the large public space.

01525 850000 www.grundfos.co.uk

enq.308

New ASHPs from Grant UK



Grant UK has recently introduced the Aerona HE range of ASHPs. It's a response to the requests of customers who were impressed by the Aerona models but wanted a little bit more. The new range offers bigger, single phase models, higher outputs and CoPs at lower air temperatures with even quieter noise levels, while maintaining the tried and tested features of the existing Aerona range. The Aerona HE range offers units from 6.5kW up to 21.5kW

and provides higher CoPs sustainable at lower temperatures. Like the original range they are MCS approved and these units use R410a refrigerant, which allows them to operate at lower ambient temperatures.

01380 736 920 www.grantuk.com

enq.309

Infrarad warms up energy debate



Stylish, good looking and highly efficient space heating that consumes half the energy required to run conventional radiators is now available from a new UK company, Infrarad. Infrarad offers three product ranges new to the UK. The Contract range is a collection of five lightweight composite panels

designed for wall- or floor-mounting. The Curve is a variation on the Contract panel concept with a convex curved surface. The Designer glass panel towel-warmers are designed for wall-mounting in all bathrooms irrespective of the heating system. Infrarad's products all use radiant heat and are therefore more efficient and do not create a stuffiness inside the room. Infrared heating can be more cost-effective than traditional central heating.



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Stelrad embraces BIM



Stelrad Radiators is embracing BIM and now has a number of exciting products on BIMStore ready for architects, engineers and contractors to integrate into future projects. Stelrad has invested in several core ranges with the aim of becoming a shared knowledge resource to support decision making about a facility. By simply selecting the product, placing it in their

design document and putting it in place, this allows designers to visualise and utilise real components at the planning stage. Stelrad will be providing a number of their products that currently feature heavily in commercial projects including their Concord, Column and low surface temperature (LST) radiator ranges.

0870 849 8056 www.stelrad.com

enq.313

Warm air heating taken to a new level



Johnson & Starley's new WarmCair condensing Warm Air Heating system is already demonstrating energy efficiency and home comfort benefits in a modern residential property in Northampton, owned by Mr and Mrs Inwood. Replacing the previous unit with the new WarmCair

C26D took just one day with minimal disruption. The WarmCair's performance has been carefully monitored showing an energy consumption drop of around 30 per cent and has lower carbon and NOx emissions. It uses more of the energy input compared to non-condensing technology and also claims up to 98 per cent thermal efficiency.

Local company provide communal heating solution for Epsom Station redevelopment



Evinox Ltd has provided a complete communal heating solution for the redevelopment of Epsom Railway Station. This includes M&E design support, heat interface units and an energy metering and billing service. The mixed-use scheme will provide 54 mixed tenure affordable apartments and 63 private apartments. The communal heating system is connected to an energy centre that includes a combination of dual fuel, bio diesel and gas fired boilers to achieve renewable targets and reduce carbon emissions for the building. Each apartment features an Evinox ModuSat heat interface unit with integrated hot water storage tank. The ModuSat draws energy from the main heating primary circuit delivered from the energy centre. This is in line with latest legislation encouraging centralised plant rather than the use of individual heating and hot water systems. The storage model enables the centralised plant space to be greatly reduced due to the increased thermal storage facility being utilised in each apartment. Residents benefit from the Evinox remote billing solution, where they only pay for the proportion of energy that they consume, receiving fully itemised bills. The ModuSat heat interface units feature in-built energy meters, which enable Evinox to accurately monitor and record the energy used to provide heating and hot water for each dwelling.

01372 722277 www.evinox.co.uk

enq.315



Year long trials prove Ecodan's performance

Mitsubishi Electric has released the results of independently audited data from year-long trials into the performance of its Ecodan® air source heat pump system at 23 sites around the UK. Results show that Ecodan achieved an average seasonal performance of 2.9 when measured against the government's preferred boundary condition for calculating heat pump performance, known as Seasonal Performance Factor (SPFH4). As calculated by the Energy Saving Trust, Ecodan demonstrated average estimated annual operating cost savings of 8 per cent over a gas condensing boiler, 36 per cent over an oil condensing boiler and 67 per cent over a direct electric heating system. Estimated carbon emission savings of 21 per cent, 41 per cent and 67 per cent, respectively, were also demonstrated and the EST report also shows that after future grid decarbonisation, these carbon savings rise to 85 per cent over gas and 88 per cent over oil. "Many heat pumps on the market report high performance levels that are based on a static factory test condition and although these are useful comparative tools, they are no substitute for real world performance data," commented Tom Byrne, assistant technical manager at the Energy Saving Trust and project manager for the field trials.

01707 282880 www.heating.mitsubishielectric.co.uk

enq.316

JS Air Curtains at Reynolds Furniture



As part of a major refurbishment at its retail store in Bognor Regis, Reynolds Furniture selected JS Air Curtains' Finesse and Optima air curtains to complement its modern interior design. A 1m Finesse concealed air curtain was installed flush with the ceiling over the back door, while a 2m Mini Optima was suspended above the automatic sliding doors at the main customer entrance. "Having previously enjoyed a problem-free

relationship with JS Air Curtains, we turned again to this local supplier. We knew we could rely on the performance of the air curtains and that this kit would be easy to install unobtrusively at both entrance points," commented Brian Ritchie, project manager.

Vortice launches Punto Evo



Vortice has launched the Punto Evo, a development of its popular Punto intermittent axial fan, which is ideal for shower rooms, en suites and WCs. The 2010 Building Regulations recommend that System 1 fans should be as low energy as possible – less than 0.5 watts per litre per second. Punto Evo satisfies that requirement and also has a low decibel rating – under 21 dB(a) – which is the

equivalent to a whisper. This fan is perfectly positioned to be used as part of the Green Deal for those people who wish to increase the energy saving within their home. Made with shock resistant, anti UV, ABS thermoplastic resin, the fan is available in 4" for bathrooms and a soon to come 5" model for utility rooms.

01283 492949 www.vortice.ltd.uk



Eurostove has introduced the Hergom Laredo stove-oven, which is designed to fit against a flat wall or into a corner niche. This is a truly inspirational design with a large capacity stainless steel oven, which is removable for easy cleaning and maintenance. The large viewing panel remains clean due to an Airwash system and behind the glass are two grid positions. Using a double-wall construction the hot air is circulated around the stove and oven offering combustion values of 80 per cent efficiency and 0.09 per cent CO emissions.



Gunning Heating Products now specialise in domestic trench heating, delivered fully assembled for easy fitting. Trench heating is an ideal way to stop down draughts and condensation along glass areas. It is great for those hard to heat spaces and makes a heat curtain along the glass. Gunning Tubular Radiators are compact low level heaters with a high output. They are suitable for conservatories and rooms where wall space is minimal and look good too.





Opies UK Limited distribute Skamolex Vermiculite and Super Isol Calcium Silicate fireproof Insulation refractory panels. Skamolex Gold Vermiculite boards are brilliant for lining gas fires, fireplaces and stoves, register plates, heat shields, replacement firebricks etc. Their insulating capacity, up to 1,100C, means better combustion and cleaner emissions when used as firebrick linings. They are ceramic fibre free, non-dusting, non-irritant and odourless, with a high mechanical strength.





Modern heating technologies place enormous demands on a chimney system, particularly with condensate forming. The GW3 rated ceramic profiled liner Absolut, from Schiedel, offers condensate resistance even after a soot fire. Thermal performance is optimised through the provision of combustion air at the right temperature through the integrated shaft. Heat transmission between the warm interior and cold exterior of the building is avoided through the use of the thermal chimney block.

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Architects happy to go with the FlowBar



Air Diffusion, part of Ruskin Air Management, has launched a range of high capacity linear slot diffusers. Designed to combine a high air handling capacity with maximum flexibility, FlowBar is suitable for ceiling and sidewall applications. Pattern controllers, 600mm in length, allow horizontal and vertical airflow. Standard slot sizes are 38mm

and 51mm with single section lengths up to 2,400mm. The discrete and stylish look allows them to blend into a design so they can be almost invisible, or can become part of the interior design by providing sleek lines in walls or ceilings, as displayed in the Burberry store in Oxford Street.

01227 276100 www.ruskinuk.co.uk

enq.321

Eliminator eliminates debris



Sentinel's new technology heating system filter – Eliminator – has been very well received by installers all across the UK. The Eliminator's four powerful hydro-cyclones force clean water out of the top of the filter and spin all types of suspended system debris down into the bottom of the collection chamber. Four strategically positioned magnets accelerate the capture and removal of any magnetic debris. Vitally, the

unit will never block as the design arrangement of the cyclone chamber ensures continual flow through the filter, even when the collection chamber is full.

01928 588330 www.sentinel-solutions.net

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It's all in a days work with Schlüter®-DITRA-HEAT-E underfloor heating



Cutting installation time by up to 70 per cent, boasting an extremely low assembly height (5.5mm) and providing one unique underfloor heating system all available from a market leading innovative manufacturer – Schlüter*-DITRA-HEAT-E has arrived! Schlüter-Systems has developed a unique electrical underfloor heating system that eradicates sticky situations, measuring mistakes and self levelling and primer layers. Leaving other conventional systems out in the cold, Schlüter*-DITRA-HEAT-E is the perfect all-in-one integrated solution for use under tiles and natural stone flooring. Ideal for refurbishment and renovation projects thanks to its uncoupling and crack-bridging properties, Schlüter*-DITRA-HEAT-E is unlike anything else available due to its loose heating cables, which are fixed down to the uncoupling mat free of tape as a result of its unique studded design. Time-saving benefits include: easy press to lay cable (no tape or glue); no self-levelling layer or primer laying; loose heating cable for greater flexibility; uniform spacing of every three studs; integrated and balanced packages; and it can be tiled immediately. Joachim Backes, managing director at Schlüter-Systems, comments: "The end result is an underfloor heating system that really does tick all the boxes, whether you're the specifier, installer or the homeowner."

01530 813396 www.schluter.co.uk

enq.323



Precision ventilation control for university

Precision window actuators from SE Controls are being used as part of an energy efficient natural ventilation system at Sheffield University's Nuclear Advanced Manufacturing Research Centre (NAMRC), to help maintain a comfortable environment. To provide the high degree of control required, SE Controls installed a range of chain actuators, which are linked to the building management system and are used to control the operation of the high and low level vents. Twenty TGCO 24 15 actuators with a 350mm stroke length were installed on the building's high level exhaust vents, while the need to protect against finger entrapment on the low level louvres prompted the selection of 18 SE Controls' TGCO 24 20 'Easi-Drive' compact actuators each with 160mm stroke length. SE Controls' Project Manager, Darren Wainwright, said: "By using precision actuators to provide incremental operation of the system's vents and louvres, it helps ensure that required performance is within the specified design parameters."

Digital Polypipe Ventilation Product Selector



Polypipe Ventilation has announced the launch of its first ever digital System and Product Selector, featuring embedded web links, an easy to use search facility and useful share function. As with the printed version, the online System and Product Selector is packed with Polypipe Ventilation's latest products and technical information on its full range of energy-saving domestic and light commercial ventilation systems. The digital ventilation catalogue has been designed as a comprehensive guide to assist distributors, specifiers,

developers, installers and engineers in the selection of ventilation systems that meet current Building Regulations and save time and money on site.

eng.325



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.cu, or go direct to the company's own website. Brochures and videos are also regularly available.

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The new, improved Daikin Altherma LT split range of air to water heat pumps, from Space Air Solutions of Guildford, is not only more efficient than the range it replaces but has achieved accreditation in Appendix Q of SAP. Daikin Altherma's SAPQ accreditation applies to the complete 4kW to 16kW Split LT range. For social housing providers these systems not only reduce energy consumption and carbon emissions but importantly for their tenants, reduce fuel bills.



Firefighters were called out after a DN900 high-pressure pipeline failure at the Wyelands intake pumping station at the Forest of Dean, which left households without drinking water. After meticulous technical discussions, a contract was secured with T-T's valve division, Aquaflow, for the supply of several replacement valves. The valves were manufactured in robust ductile iron, with all coatings and materials having WRAS approval to ensure drinking water would not get contaminated.



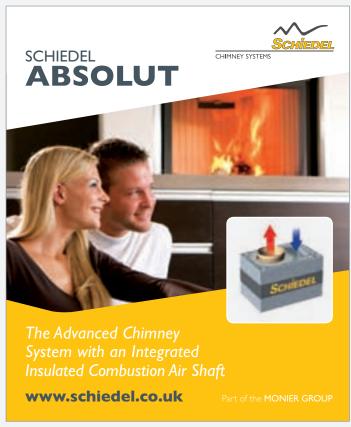


The high efficiency Wilo Yonos-PICO small circulating pump isn't just good at its job, it is award winning. It recently won the Green Innovation Award at the Renewable Awards and continues to deliver energy efficiency that saves up to 90 per cent of the electricity used by a standard non-high efficiency pump and savings of up to £100 a year off the electricity bill. Paying for itself in around two years, no wonder it wins awards!



Two honeymoon log cabins within the luxury wedding venue, The Vu in West Lothian, are reaping the rewards of renewable energy, following the installation of two Danfoss DHP-AT air source heat pumps. The new build cottages each host an 8kW unit, used for heating and domestic hot water. The owners were recommended the system via Danfoss approved installer Eco Coil Heating, following months of research into other heating systems.

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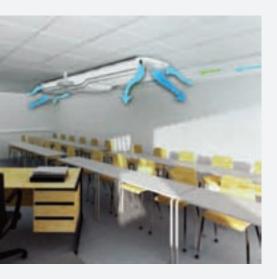


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Latest generation of Cool-phase is in a class of its own for low energy ventilation and cooling



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

The improvements provided by the new generation follows an intensive and all-encompassing two-year development programme during which the Monodraught R&D team has applied innovative new design practises and some of the most advanced manufacturing technologies available

to create ground-breaking improvements.

As well as dramatically reducing design and development time the programme has provided significant enhancements and improvements in almost every aspect of the Cool-phase system.

Key customer benefits of the new system include: a more stylish, compact, lightweight and stronger housing with fewer parts to provide much improved acoustic and thermal performance. In addition, almost unbelievable fan performance has been achieved to dramatically reduce energy consumption – cutting power usage during typical daytime operation to between 7 and 20 Watts. Typical running costs are approximately £20 per year and due to the reduced power consumption Cool-phase is now significantly quieter in operation!

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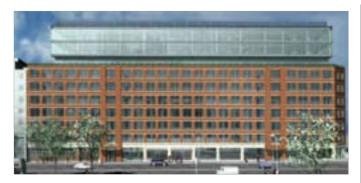
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For a free estimate and design call our technical team here in the UK on **01903 777333** and to find out more about our Passive House Institute approved products visit **www.zehnder.co.uk** and click on Comfosystems.





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Encasement covers up at new London Premier Inn and office development

A major project to transform and extend an existing office building on London's Euston Road into a new Premier Inn and high level office space is using 99 'Circa' column casings from Encasement to conceal structural columns on the top three floors of the building. The Clifton House Hotel redevelopment involves the transformation of the existing building, but also the addition of three new floor levels on top of the existing six storey structure to create more than 2,500 sq m of high quality office accommodation. Of the 99 'Circa' column casings that were supplied and installed by Encasement on the project, 82 were 450mm diameter, while the balance were slightly smaller at 300mm diameter, as they were located close to the fully glazed walls on the new upper floors and the designers wanted to maximise the views across the city. All of the casings are 3,000mm in height and manufactured from 12mm thick pre-formed plywood, which were supplied plain, allowing the casings to be decorated on site to integrate with the interior.





RENOLIT COVAREN Trojan PB – Smokey Brown Fine Oak

RENOLIT Cramlington Ltd has announced the introduction of RENOLIT COVAREN Trojan PB, the second colour introduction of this finely defined oak in an emerging darker trend colour area. RENOLIT COVAREN Trojan PB 46748 has a smoky brown colour with a pearl element giving added vitality to the finished result. This modern fresh oak is an intricate design with subtle planking, fine wood-ticking and precise detailing, bringing depth and variety. The design is finished with the Woodtouch emboss giving a realistic and natural surface feel. The design is ideal to mix and match with a wide choice of different solid colours. Darker shades create atmosphere or cream for a fresh, vibrant effect. Trojan PB works well with the following solid RENOLIT colours: Stone Grey Suedette Matt, Dakar Suedette Matt, Flint Grey or Soft Cream Suedette Matt.

01670718122 www.renolit.com/design

eng. 208

Healthcare Estates Exhibition helps Lucy Switchgear to raise its profile within the sector



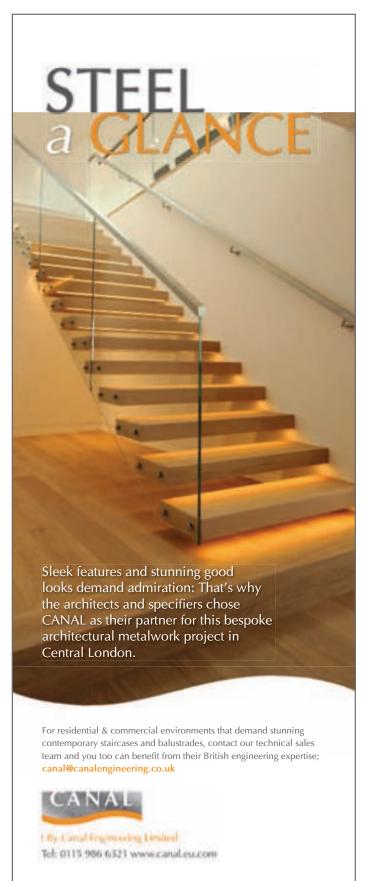
Lucy Switchgear, a global leader in switching, protection and automation solutions for electrical distribution systems, exhibited for the first time at the 2013 Healthcare Estates Exhibition, highlighting its new Package Substation. Comprising a Sabre Ring Main Unit, AcuLok distribution cabinet and a fluid filled distribution transformer, the new Package Substation was developed in partnership with CG Power Solutions. It allows customers to seamlessly install a one-stop, best-in-class solution that matches Distribution Network Operators' specifications. Configurable for a wide range of power distribution and industrial applications the substation is fully warranted, providing customers with complete peace of mind. The stand also featured Lucy Switchgear's range of distribution substation solutions, designed to help customers achieve a safer, more efficient and reliable power distribution network. Commenting on the event, Vince Pioli, marketing manager for Lucy Switchgear, said: "The Healthcare Estates event gave us the ideal opportunity to raise our profile as a key supplier to the healthcare estates sector. We were able to share information with visitors to our stand on how our substation solutions can deliver safer, securer power supplies and energy efficient solutions."

01844 267 267 www.lucyswitchgear.com

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eng.210





enq.212

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Furniture for modern office environments

By Tony Flint, KI product development manager

ench solutions for desking remain a default standard as businesses continue to maximise their floor space. However, there are schools of thought developing which suggest some future change in the face of continuing resistance from staff who feel undervalued sat at a shared space. While regularly specified within Western Europe, within the UK there are pockets of increased demand for height adjustable and sit stand chairs. The difference in height range adjustability is distinctly different for each solution - height adjustable commonly 650mm to 850mm, sit-stand 650mm to 1,330mm. Many architects and designers working during the pre-CAD technology era will of course remember their own version of sit-stand, spending the majority of their working day at a drawing board with drafting chair and adjacent rectangular layout table with task chair. While things have changed, this method of working was obviously beneficial as recent studies confirm that sit-stand solutions enhance overall employee health while increasing productivity.

Space utilisation surveys are a really useful way of highlighting desk usage and it will come as no surprise that an office area with individually assigned desks very rarely exceeds an average 70 per cent usage. So it is quite easy in theory to create a flexible layout and assign a 1.2 headcount for each desk. How you sell this to the occupants is the key challenge and one that is crucial if to be a success. Engaging with user groups is essential, obtaining their views and buy-in at an early design stage helps the designer to fully understand the diverse requirements within an office environment and consequently provide a tailored workplace solution.

It is important to find the correct balance between an adequate desk size to undertake specific job function, and provision of sufficient personal space for users to feel comfortable. As always, technology is a key driver to determine required minimum worktop area and it could be argued that the increasing use of PC tablets provides an opportunity to 'sweat the asset' while complying with legislative minimum requirements. However, experience suggests a bench worktop size of 1,400mm x 600mm is the minimum; anything smaller can become restrictive and compromise the user's personal space. 120 degree desks are more commonly specified within call centre environments. If planned well they can be a viable smaller footprint alternative to lines of rectangular benches. This requires careful layout consideration to avoid the common pitfalls of users feeling exposed when backing onto corridors or experiencing light reflection and glare.

The growth in 'third space' has been significant over the last few years as organisations seek to provide alternative work areas away from the desk using more informal furniture designs. They can be visually stimulating and give workers new options ranging from private study space to informal team collaboration. Third space products provide a great opportunity to

Continued overleaf...

'The growth in 'third space' has been significant over the last few years as organisations seek to provide alternative work areas away from the desk'



'From soft seating to desk screens, partitions and even storage, sound reduction is being designed into furniture wherever possible'



creatively sub-divide space without the need for installation of traditional partitions with all the associated services' requirements. Meeting pods within open office areas are regularly being specified as an alternative option to traditional meeting rooms; they generally require more capital outlay at day one but provide a totally flexible option making future changes not only cost effective but very quick and easy.

Workstations connected at 90° to central storage spine configurations are also becoming popular and a growing number of manufacturers are introducing these designs into their portfolios. Visually they provide a cleaner aesthetic due to the reduction in desk under-structure and create an opportunity to unite families of products and integrate power and data services in a coherent manner.

Given the trend to maximise office occupancy, noise levels and lack of concentration are commonly cited as major issues within the open office environment. This has resulted in acoustics becoming a priority in office furniture design and is manifesting itself in all mentioned areas. From soft seating to desk screens, partitions and even storage, sound reduction is being designed into furniture wherever possible.

Storage will always remain a pivotal component in workplace design, however, there has been a big shift in how people use storage in the office. Paper filing storage is increasingly in decline, while storage of personal effects is increasing. As a consequence of this organisations are seeking keyless solutions as the cost of 'key' management becomes considerable. There are now innovative new smart card and image recognition systems becoming available as the importance of personal storage in the workplace develops way beyond the humble locker. Additional capital outlay is again required to provide this smart functionality but the whole life costs can be substantially reduced when factoring in annual facilities management costs.



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Win a £10,000 Ted Todd fitted wood floor...

Ted Todd has launched a design competition to celebrate the launch of its new range 'create', a first of its kind, easy-to-use bespoke design system for anyone wanting to create a fabulous hardwood flooring to suit their project's style.

For a chance of winning a Ted Todd fitted floor, worth £10,000, all you need to do is enter your design on its Facebook page: www.facebook.com/tedtoddwoodfloors. With over 30,000 possible design combinations, designing something to complement your interior has never been easier.

01925 283 000 www.tedtodd.co.uk

Two worlds of colours for floor coverings



Developed in collaboration with international architects and designers, the new norament 926 satura rubber floor covering from **nora systems** offers two worlds of colours for every desired spatial effect. Perfectly harmonised, there are 16 neutral architectural colours, ranging from a warm beige through to cool shades of grey, and

16 chromatic accentuating colours, for bright and vibrant design schemes. The new product is part of the certified floor covering system, nora system blue, which combines nora's low emission rubber floor coverings with low emission installation materials. Specially trained installers offer additional assurance.

01788 513 160 www.nora.com/uk

enq.217

'Bright, Shiny New Stars' from Furnipart



LDL Components Ltd has unveiled the new 2013 collection of contemporary, design-led handles from Furnipart, a leading Danish manufacturer. Available exclusively through LDL, the new range continues 'The Star on Your Furniture' theme and is entitled 'Bright, Shiny New Stars'. According to Furnipart, the focus is on long, slim

aluminium handles elegantly integrated into the full length of the front of the door or drawer, and on simple handles or knobs for furniture. All the handles combine innovative design with ergonomic ease of use and functionality. The new collection features 18 stunning designs in a variety of materials including brushed nickel, polished chrome and wood.

Trendsetting industrial style



With the trend for utilitarian interior design taking hold, **Solus Ceramics** has introduced the stylish Replicate range, a concrete inspired floor and wall tile that embodies a modern industrial aesthetic. Replicate is influenced by urban architectural trends and industrial landscapes, and features nine con-

temporary colours, including raw greys and rustic browns. The range reflects the patterns, colours and irregularities that appear in polished concrete and also display variations that look similar to flaking plaster. Some of the tiles have also been designed to evoke oxidized metal, presenting a chic rusted finish. Replicate is available in a number of large format sizes, for uninterrupted floors and walls.

0121 753 0777 www.solusceramics.com

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Simpson Strong Tie updates catalogue



Simpson Strong-Tie has updated its Heavy Duty Fixings and Resins catalogue to include its latest anchors for concrete and masonry such as the THD concrete screw. The company's extensive anchor product range, which includes expansion and undercut solutions along with adhesive systems and accessories, has been developed and tested in the company's state-of-the-art facilities to significantly improve the safety of buildings and other structures. As with all Simpson Strong Tie products this range comes with full techni-

cal specification and installation details as well as support, if needed, from Simpson's highly experienced technical team.



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Regulating washroom design

Designing a commercial washroom is about more than just aesthetics, as Andrew Taylor of Maxwood Washrooms explains in his guide to some of the key regulatory requirements surrounding the design of sanitary facilities to suit all user groups





Building Regulations

Whether it's a new build project or a washroom refurbishment, the provision of sanitary conveniences and hand washing facilities is regulated by a wide range of standards. For example, Part G of the Building Regulations contains guidelines on the number and type of facilities required in a building to meet the needs of all user groups.

Generally speaking, separate toilets are required in work-places where there are both male and female employees. However, if the total number of employees based at a particular location is 10 or less, and there are two or fewer employees of one gender, then unisex washrooms may be provided. These can be what are known as 'superloos', which are single units complete with toilet and washbasin, or larger washrooms designed to be used by men and women, with lockable toilet cubicles and shared hand-washing facilities.

Disability Discrimination Act

Another consideration for washroom designers is Part M of the Building Regulations, which relates to access and use of buildings. This includes ensuring easy access to washrooms for everyone, regardless of age or physical ability.

In addition to meeting the accessibility requirements of Part M, commercial washrooms must be designed to meet the strict criteria of the Disability Discrimination Act 1995 (DDA). This requires that reasonable steps are taken to prevent a disabled person from being placed at a substantial disadvantage when accessing goods and services.

As far as washrooms are concerned, the DDA covers a variety of design considerations to ensure facilities can be accessed with ease by someone with a disability, whether that's a wheelchair user or a person with impaired vision, for example. One of the primary requirements under the DDA is the provision of at least one wheelchair accessible cubicle in any non residential building. In addition, where there are four or more cubicles provided in a washroom, one of these must be of an enlarged size to dimensions set down in the DDA Doc-M guidelines.

Cubicles for disabled users should include grab rails, outward opening doors with clear access to the WC itself, a raised toilet pan, and be fitted with indicator bolts and doors which can be opened with a closed fist – to name but a few!

Visual contrast

Although the choice of colour and finish for a commercial washroom is clearly part of the aesthetic specification, DDA regulations will also need to be considered in terms of the LRV (light reflectance value) of surfaces. So, while an all-white washroom might make a dramatic design statement, it wouldn't be a DDA-compliant solution for a commercial building. This is because the regulations require sufficient visual contrast between different areas of the washroom, such as door frames and sanitary fittings to walls, to enable visually impaired people to distinguish between these areas by virtue of the difference in light reflecting from the surface. The mandatory minimum is a

Continued on page 71...

'As far as washrooms are concerned, the DDA covers a variety of design considerations to ensure facilities can be accessed with ease by someone with a disability'

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20 point difference in the luminance of colours used but a differential of 30 points is in line with current best practice. It should also be noted that wall finishes and floor coverings should contrast with each other in terms of both colour and texture to help the visually impaired navigate the washroom safely.

Workplace washroom standards

In addition to Building Regulations, designers of workplace washrooms are advised to consult recommendations contained in the government's Workplace (Heath, Safety and Welfare) Regulations. These relate to a range of relevant issues, such as cleanliness, hygiene, ensuring user privacy with the provision of lockable doors, adequate lighting and ventilation.

The choice of materials can assist in achieving some of these standards. For example, high pressure laminates offer a hygienic,

easy to clean option for cubicle doors and other surfaces, while SGL (solid grade laminate) is usually the preferred material for cubicles subject to high use, and possible abuse. This high performance material is extremely resilient to knocks and bumps, and being impervious to water means it is easily washed down to help maintain high standards of hygiene.

In addition, manufacturing walls and vanity troughs from a single piece of solid surface material creates an attractive, seamless appearance and also reduces the number of joints. This makes for easier cleaning and means there are less unhygienic crevices where dirt can accumulate. Specifying non-touch fittings, from automatic hand dryers to electronic sensor taps and toilet flushing systems, is also worth considering, ensuring a hygienic washroom environment.

Reducing costs

Designing commercial washrooms that satisfy current regulatory requirements can also bring practical benefits. Non-corrosive metal fittings and hardwearing, easy-care laminate panels are not only hygienic solutions; they also offer superior durability, particularly in high traffic environments, which helps to reduce lifetime costs relating to maintenance and replacement.

Last but not least, compliant, well-designed washrooms, which successfully combine style and functionality, can help maximise the sales or rental potential of new and refurbished commercial buildings.

'...the regulations require sufficient visual contrast between different areas of the washroom, such as door frames and sanitary fittings to walls, to enable visually impaired people to distinguish between these areas...'



Unique modular wet-floor system launched



CCL Wetrooms has launched its Modular Wet-Floor System. The key to the system is its design flexibility. The Modular Wet-Floor system is a unique concept in wetroom technology, consisting of only three elements; drainage component, tapered board and floor or wall grill. Thanks to the flexible nature of these components, almost any size or shape of wetroom can be achieved. The Modular Wet-Floor system has been particularly well received by housebuilders and developers, as the

system allows a wetroom to be easily created on a timber floor, with a linear drain situated in almost any position.

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

enq.228

Maxwood offers extra tall cubicle systems



Maxwood's comprehensive collection of washroom systems now includes extra tall cubicles for added privacy in education, healthcare and commercial applications. The XT (Xtra Tall) options give architects and specifiers a choice of cubicles to fit almost every feasible height of room. This XT

variant is available for a range of Maxwood's most popular cubicle systems with panels manufactured from High Pressure Laminate (HPL) or Solid Grade Laminate (SGL). XT versions can be specified for the Modelle, with its unique profiled pilasters, the Motiv, which combines good looks with durability, and the high performing Marin, a strong, water-resistant solution.

Promat in historic refurbishment project



Promat UK was chosen to take part in a Prince's Regeneration Trust project to restore an historic pottery. Promat MASTERBOARD* and Promat SUPALUX* are being used to reproduce the effect of the old timber plank lining, which was originally used at Middleport Pottery in Burslem. The major-

ity of the Promat boards will be installed in 200mm wide strips to recreate the original look and feel of the pottery's interior, while providing the reliable passive fire protection demanded by today's stringent Building Regulations. "Part of the building will be operating as a pottery again, so we needed robust fire protection materials that would give the right appearance and be resilient and hard-wearing," comments Charles Wellingham, of Feilden Clegg Bradley Studios.

Success for Ellis Furniture with HI-MACS®



Ellis Furniture's new curvy Reflections bathroom furniture range features a sweeping yet elegant single-piece HI-MACS* solid surface vanity. This design has a sleek, almost minimalist look, while maintaining all the functionality and storage needed in a modern bathroom. The centre-piece to the design is the 50mm curved worktop, hand crafted using a double layer of Alpine White HI-MACS* material and polished

all round to create a beautiful smooth touch finish. The cube cabinet with soft close drawer provides ample storage for towels and bathroom essentials, while the decorative wall panel and curved corner mirror provide additional storage.

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Saniflo reveals the beauty of Kinemagic



Cubicles offer a swift and hassle-free showering solution for any shape or size of bathroom and en suite. In most cases, you can have a watertight enclosure, complete with the shower, controls and doors fitted and ready to enjoy in less than two hours. The Kinedo Kinemagic from Saniflo is available as a

corner or recessed cubicle. The Kinemagic Corner features cool, sleek glass panels and an attractive anodised finish. This high quality, all-in-one shower cubicle has been designed to fit in exactly the same space as an old bath and has an integrated thermostatic shower control. The clever construction of the Kinemagic enables it to be fitted in just one day with no mess no fuss and no re-tiling.

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Make a bee-line for the Hive Basin



The Hive Basin, from **Hudson Reed**, is a new freestanding basin design, which creates a contemporary feel for any bathroom, and a real focal point. The design is perfect for achieving an updated look without resorting to the harsh, square angles usually associated with contemporary design. The basin features a clean oval bowl shape with a tiered effect tapering in towards the base to give the illusion of more floor space. Manufactured in gel coated resin to produce a clean,

crisp finish, the Hive basin co-ordinates well with Hudson Reed tap ranges such as Cloud 9 and Hero to create a stylish yet practical look.

01282 418 000 www.hudsonreed.co.uk

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Trend success leads to launch of new bathrooms collection



Following its success with kitchens, Trend Interiors, part of the Mereway Group, has extended its portfolio to offer a selection of affordable quality bathrooms in modern finishes and designs that are spot on for today's market. This new collection offers nothing but simplicity in selection, planning and ordering. The range offers a straightforward choice of colours and finishes that are right on trend, and an easy to use pricing guide that clearly bundles products together to form popular, suggested cabinet sets. The range presents modular and fitted arrangements, which are supplied rigid and 'ready to fit' making them easy to cost, simple to order, and easier for fitters to install. A new 35-page brochure presents sleek, clean and stylish modular arrangements and floorstanding fitted run combinations that offer the perfect platform for stunning worktop designs, beautiful sanitaryware options and a selection of width and depth cabinets. No space is wasted as units incorporate a range of storage options such as open shelves, drawers and super slim units at just 150mm wide. For those on a limited budget, these value bathrooms are guaranteed to impress. Quality slab doors and matching cabinet finishes are offered in four different options, Matt and Gloss White, Lancaster Oak and Tobacco Walnut, to create beautifully modern bathrooms, which are high on style.

www.trendbathrooms.co.uk 0800 028 4466

Exciting new material is sure to be child's play

dvanced Technical Panels (ATP), part of the James Latham Group, has announced the arrival of an exciting new plastic material, which is certain to make a big impact, especially within the leisure and play equipment sectors. Ideal for both indoor and outdoor use, HDPE (high-density polyethylene), which will be branded Harlequin by ATP, is a totally unique material that, as well as being completely resistant to the elements, is also extremely difficult to damage or break, therefore making it a low maintenance and long lasting option.

David Briggs, director of ATP commented: "Already we can see all kinds of applications for Harlequin and we know that in other countries it has been used extensively in the manufacture of children's playground and educational equipment either for use inside or out. Plus, because it won't fade, scratch, swell or split and dirt, graffiti and permanent markers are easily removable, it will stay looking brighter and better for longer."

Other potential applications include packaging, outdoor furniture such as benches, tables and fencing, floors for artificial ice and hockey rinks as well as the marine industry.

The Harlequin range, which is 100 per cent recyclable, is available in 19 different colour combinations for maximum impact. It also complements ATP's



The Harlequin range is available from ATP in 19 different colour combinations

other products for the play sector including Multiwall, a birch plywood which is coated on both sides with decorative polypropylene laminate and, as well as playground equipment, is also used in sports fencing and rebound boards.

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Please contact ATP on 0113 387 0850, email atp@lathams.co.uk or visit the website www.advancedtechnicalpanels.co.uk





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AVA™ LED products chosen by Virgin

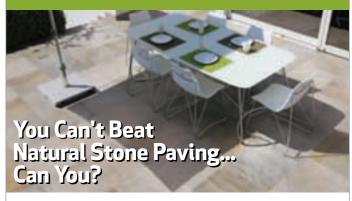


In a bid to create more energy efficient railway stations, Virgin Trains has used AVA™ branded LED lighting products, manufactured by Novah Ltd, to light up parts of Birmingham International Railway Station. Lighting accounts for a significant amount of energy usage, and AVA™ LED technology was

specifically chosen as a cost effective route in achieving 90 per cent reductions in power consumption, when compared to outdated lighting technologies. AVA™ branded T8 tube lights, lamps and panel lamps were chosen for this project, as well as the AVA™ intelligent lighting solutions, which includes microwave dimming technology in both tubes and panels for improved on site safety. This will also contribute to further savings and extended product life.







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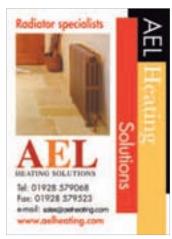
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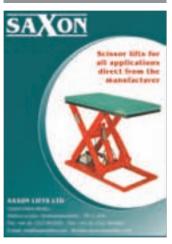
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