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26



32

projects

- 26** **Cambridge University sports a new home**
SDC and Arup Associates have combined to produce a distinctive new sporting hub for university life in Cambridge, reports Steve Menary

- 32** **Emerging from The Shard's shadow**
Europe's tallest building has company – a prestigious 19-storey office development called The Place. It may share the same architects and, therefore, 'the same DNA' as The Shard, but Jess Unwin reveals the many differences between the two structures

features

- 43** **EXTERNAL FIXTURES: EXTERNAL CLADDING & FAÇADES**

Design sustainability into the building fabric

Ian Clarke, technical application manager at Tata Steel Colorcoat® discusses the important role that the building envelope can play in helping architects to meet sustainability targets

- 53** **HEATING & VENTILATION**

Much more than hot air

Clarissa Youden, associate director of Total Home Environment, explores how heat recovery ventilation offers dramatic fuel cost savings and health benefits

- 61** **INTERIORS: FLOORS & FLOORCOVERINGS**

Considerations with carpet

Abby Chandler, marketing manager at Heckmondwike FB, looks at what specifiers need to consider when choosing carpet for commercial environments

- 65** **LANDSCAPING & EXTERNAL WORKS:
BLOCK & CONCRETE PAVING (INCLUDING SURFACE DRAINAGE)**

Permitted paving

Taking a responsible approach to drainage is essential to reduce flooding and pollution from paving and hard landscaping. Government has recognised this issue with important changes to permitted development rules and other recent legislation requiring sustainable drainage systems (SuDS), as Chris Hodson, RIBA consultant to the trade body Interpave, explains

news & events

- 4** Industry News
15 Events
16 CPD Focus

HEADLINES

- 5** Winner of the 2013 Pritzker Architecture Prize Laureate
6 New development of Tate Modern gets Wolfson Foundation funding
9 Unsung design heroes of London 2012 come forward

the
arc
show

- 10** Show Preview

GreenbuildEXPO

- 23** Show Preview

products

- 21** Editor's Focus
37 Groundworks
38 Structural Elements
38 External Fixtures
30 Insulation
49 Heating, Ventilation & Services
57 Interiors
63 Disabled Products & Services
66 Safety & Security
64 Landscaping & External Works
67 Classified & Directory



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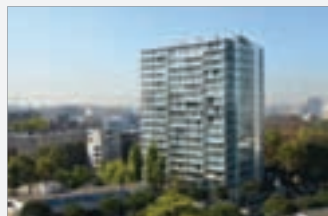
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AWARDS

Designs of the Year 2013

The Design Museum has announced the seven category winners for the annual Designs of the Year Awards. The awards celebrate the best of international design from the last 12 months. The overall winner for the Design of The Year 2013 is announced on 16 April.

The seven category winners include gov.uk, a new British government website which promises to revolutionise governmental online communications, bringing together different government websites into one single site. Other winners include the renovation and reimagining of a faded 1960's tower block in Paris, a landmark documentary on fashion icon Diana Vreeland, a reinvention of the wheel in the form of a unique



folding wheel which can be applied to bicycles and wheelchairs and a chair constructed using the latest computer technology.

The Seven Category winners are:

- **Architecture:** Tour Bois-Le-Prêtre, Paris – Designed by Frédéric Druot, Anne Lacaton and Jean-Philippe Vassal
- **Digital:** Gov.uk website – Designed by Government Digital Service
- **Fashion:** Diana Vreeland: The Eye Has To Travel – Directed by Lisa Immordino Vreeland
- **Furniture:** Medici Chair – Designed by Konstantin Grcic for Mattiazzi
- **Graphics:** Venice Architecture Biennale Identity – Designed by John Morgan Studio
- **Products:** Kit Yamoyo – Designed



by ColaLife and PI Global

- **Transport:** Morph Folding Wheel - Designed by Vitamins for Maddak Inc.

Pete Collard, curator of Designs of the Year comments: "Designs of the Year is the Design Museum's authoritative review of the most innovative, forward-thinking and culturally relevant projects from the past twelve months. The work selected demonstrates the many ways in which design can transform our physical and cultural landscape."

The winning entries, along with all the shortlisted designs are on show at the Design Museum until 7 July.

WEBSITE

Healthcare Estates launch new website

Healthcare Estates Exhibition & Conference is set to be the biggest yet, with more exhibiting companies, increased delegates and a growth in visitors expected. Interest in the healthcare sector, and consequently the show, is at an all-time high, with a number of key issues being discussed at the event in October.

To reflect the expected growth in the event, the organisers, Step Exhibitions are launching a new website. Visitors



Scan the code with your mobile phone using QR code software to view the latest news feed from www.adfonline.eu

AWARDS

Kings Cross Station

The transformation of King's Cross Station by John McAslan + Partners is one of the winners of the 2013 European Union Prize for Cultural Heritage/Europa Nostra Awards. The award ceremony will take place on 16 June 2013 at the Odeon of Herodes Atticus in Athens,



to www.healthcare-estates.com will find it easier to register, find out which companies are exhibiting, access details of the conference with latest speakers plus information and prices for the dinner.

Steve Webb, director, said: "The site will also feature the latest information on the conference, with regular updates on speakers and streams and offers to VIP's."

The site was launched this month.

PRITZKER PRIZE

Toyo Ito of Japan is the 2013 Pritzker Architecture Prize Laureate

Toyo Ito, a 71 year old architect whose architectural practice is based in Tokyo, Japan, will be the recipient of the 2013 Pritzker Architecture Prize.

The formal ceremony, for what has come to be known throughout the world as architecture's highest honor, will be at the John F. Kennedy Presidential Library and Museum in Boston, Massachusetts on Wednesday, May 29. This marks the first time the ceremony has been held in Boston, and the location has particular significance since it was designed by another Pritzker Laureate, Ieoh Ming Pei who received the prize in 1983.

Pritzker Prize jury chairman, The Lord Palumbo, spoke from his home in the UK, quoting from the jury citation that focuses on the reasons for this year's choice: "Throughout his career, Toyo Ito has been able to produce a body of work that combines conceptual innovation with superbly executed buildings. Creating outstanding architecture for more than 40 years, he has successfully undertaken libraries, houses, parks, theaters, shops, office buildings and pavilions, each time seeking to extend the possibilities of architecture. A professional of unique talent, he is dedicated to the process of discovery that comes from seeing the opportunities that lie in each commission and each site."

Toyo Ito has received numerous international awards, including in 2010, the 22nd Praemium Imperiale in Honor of Prince Takamatsu; and in 2006, The Royal Institute of British Architects'

Royal Gold Medal; and in 2002, the Golden Lion for Lifetime Achievement for the 8th Venice Biennale International Exhibition. Calling him a "creator of timeless buildings," the Pritzker Jury cites Ito for "infusing his designs with a spiritual dimension and for the poetics that transcend all his works."

Toyo Ito made this comment in reaction to winning the prize: "Architecture is bound by various social constraints. I have been designing architecture bearing in mind that it would be possible to realize more comfortable spaces if we are freed from all the restrictions even for a little bit. However, when one building is completed, I become painfully aware of my own inadequacy, and it turns into energy to challenge the next project. Probably this process must keep repeating itself in the future."

"Therefore, I will never fix my architectural style and never be satisfied with my works," he concluded.

He calls the Sendai Mediatheque, completed in 2001 in Sendai City,



Miyagi, Japan, one of the high points of his career. In the Phaidon book, Toyo Ito, he explains: "The Mediatheque differs from conventional public buildings in many ways. While the building principally functions as a library and art gallery, the administration has actively worked to relax divisions between diverse programmes, removing fixed barriers between various media to progressively evoke an image of how cultural facilities should be from now on."

The jury commented on this project in their citation, saying, "Ito has said that he strives for architecture that is fluid and not confined by what he considers to be the limitations of modern architecture. In the Sendai Mediatheque he achieved this by structural tubes, which permitted new interior spatial qualities."



'I will never fix my architectural style and never be satisfied with my works'

Toyo Ito

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'Tackling the issue via the planning system will [...] result in a self-cancelling debate of collective and individual interests, producing at best only micro-shifts'

Paul Graham

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The 'Beyond The Wall' installation designed by Daniel Libeskind for Cosentino exhibited at Milan Design Week...
Ref: 72161

Royal BC Museum appoints John Mcaslan + Partners for museum transformation...
Ref: 58979

I'm all for more affordable housing, but...

This month saw the full implementation of the government's planning reforms. On cue the Council for the Protection of Rural England launched another PR offensive against what it sees as the "builders charter". Some sympathy for the CPRE's position seemed to come from the House of Lords as they sent proposals to relax rules on permitted house extension work back to the Commons for a further re-think.

The reignited fierce debate over who holds the relative advantage in planning – the development community or the local community – replays of course the fundamental tension inherent in the planning system itself.

The planning control arena has always pitted ideas of collective interest against individual interest. We all tend to start out more or less on the same side – "I'm all for more affordable housing...". The inevitable qualification follows soon afterwards, justified by a various pick and mix of "but not where it has been proposed... it will ruin an area of natural beauty and/or destroy the character of the local area".

Virtually everyone agrees that investing more in housing and infrastructure will help get Britain out of recession. Virtually everyone agrees that a growing economy needs more and cheaper new homes. Nobody wants to ruin our countryside and no one wants to be labelled a NIMBY. With so much agreement about, it might seem surprising just how much room is left for quite serious disagreement.

The Planning Minister Nick Boile has been doing his level best to champion the reforms as meaningful to "Get Britain Building" while at the same time making sure those reforms are not so meaningful that they can be construed as a "planning free-for-all". The push for planning reform continues to

irritate those in local government who argue strongly for the rights of local democracy and that planning decisions continue to be made at a local level (by them). Central government for its part, strongly suspect that the devolving full responsibility back to the 400+ planning authorities will result in nothing much different to the pre-reform position. Which potentially brings us full circle and no actual change to the planning system – positive or negative – regardless of which side of the fence you sit.

A critical question remains what are the planning reforms trying to achieve? More development? More houses? It is said by many that these planning reforms will never deliver anything like the required boost to the number of new homes built in the UK. Indeed tackling the issue via the planning system will, critics suggest, always result in a self-cancelling debate of collective and individual interests, producing at best only micro-shifts – a step forward or back in an endless tug of war. If a radical shift in house building is really desired – if new development really is a collective good – then central politicians and the construction industry need to start making that case much more strongly while making new developments more interesting to individuals at a local level.

The motivation that drives a homeowner to campaign against a proposed new local housing scheme near his home, is not radically dissimilar to the motivation shown by a neighbour selling his or her home to a property firm for subsequent redevelopment. This common motivation could provide more fertile ground to unite both sides of the debate – away from the polarised planning arena. But a much better case needs to be presented for new development meaning truly positive progress and equally the status quo as more negative – and unprofitable stagnation. It is easy and remains too attractive to join a protest.

Presenting more innovative arguments in an arena other than planning might hold up more promise for significant change at a local level – but requires the input of politicians and the development community alike. There may need to be more recognition that there simply cannot be a "winner" in planning reform.

Substantial financial incentives may be part of the armoury to make new development more attractive to those individuals locally affected. But the current economic challenges will not be the only reason why such change is some way off. If a real impact on the costs and efficiency of new development is desired, a positive shift in individual attitudes must be lobbied and fought for. That is a long term project for politicians and industry alike. For now we are likely to have to make do with very much more incremental change from the stormy arena of planning reform.

Paul Graham is managing director of Planning Pipe (www.planningpipe.co.uk), online provider of bespoke construction sales leads and planning updates on new construction projects throughout the UK.

PROJECT

New development of Tate Modern gets Wolfson Foundation funding

The new development of Tate Modern has been awarded £5 million from the **Wolfson Foundation**, a charity which gives grants to excellence in the fields of the arts and the humanities, science, medicine and disability. The new development of Tate Modern will create a spectacular new building adjoining Tate Modern to the south. It will be Britain's most important new building for culture since the creation of the British Library in 1998. It will increase Tate Modern's size by 60 per cent adding approximately 21,000 sq m of new space. The new space enables Tate to explore new areas of contemporary visual culture involving photography, film, video and performance, enriching its current programme for a broader audience.

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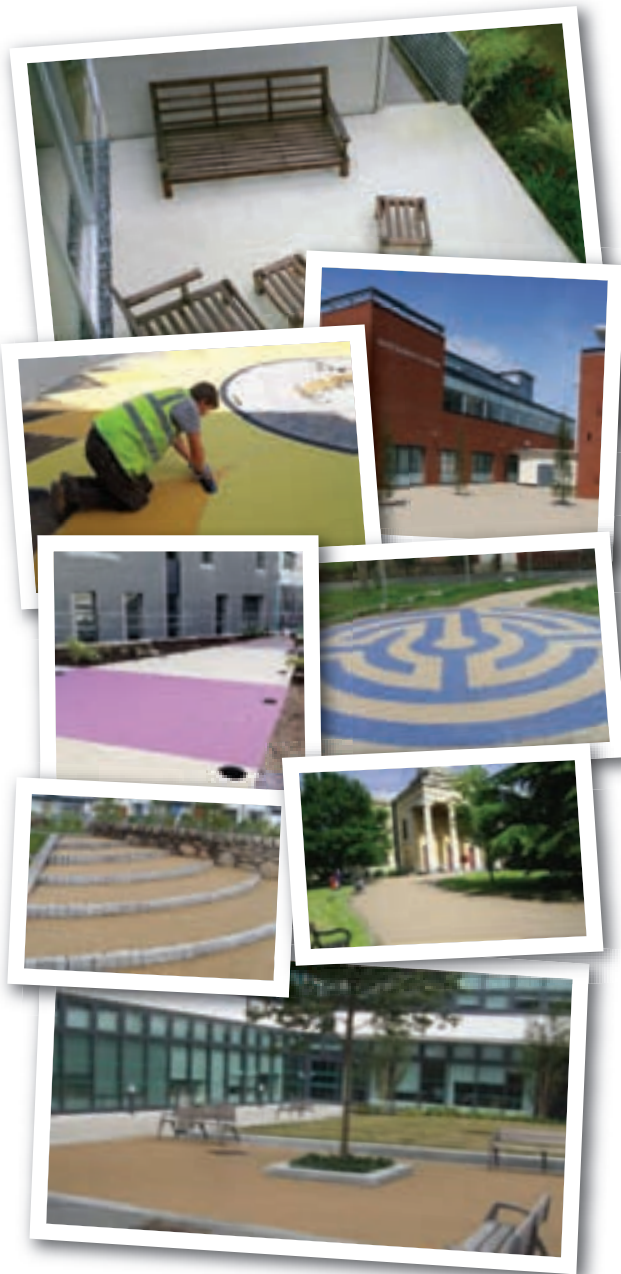


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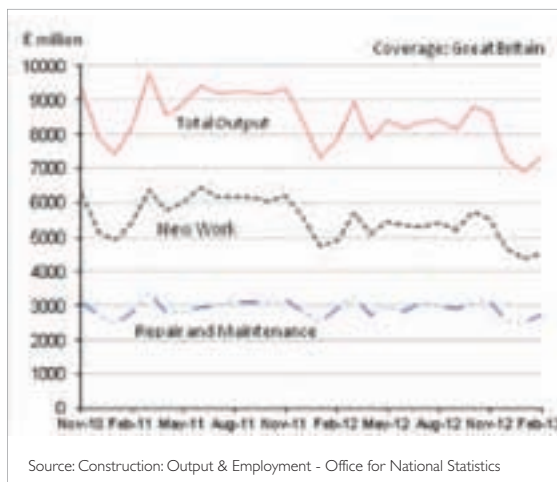
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COMMENT

February construction growth conceals underlying trend

The latest figures from ONS published on 12 April indicated a pick up in February. Overall, construction output in February was 5.5 per cent higher than in January but 7.0 per cent lower than it was one year ago.

Commenting on the figures, **Construction Products Association** economics director, Noble Francis said: "It was expected that construction output in February would be considerably higher than in January because weather conditions significantly improved. Despite this rise, it also highlights the underlying trend that output in the last three months was 9.8 per cent lower than a year earlier. Of most concern was the fall in the largest sector, private commercial, which fell 0.4 per cent compared with weather affected January. The three months to February represent the worst quarter of construction output since 1987 Q1 and indicate that construction output is likely to fall this year. The Association forecasts that output in the industry will fall 2 per cent in 2013 and this will inevitably impact on the wider economy."



Output in the Construction Industry - February 2013
Figure 1: Construction Output (constant (2005) prices, non-seasonally adjusted)

news bytes

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Unsung design heroes of London 2012 come forward

The **Design Council** is urging designers involved with London 2012 to apply for a Supplier Recognition Scheme licence. This new licence allows them to promote the massive contribution design and architecture played in delivering the most successful Olympic and Paralympic Games yet.

The licencing scheme is the first of its kind and the first time businesses that supplied goods and services for the successful staging of the Games have been able to promote their involvement for the purpose of future business development.

The relaxing of the Games marketing restriction provides a unique opportunity for the UK to talk about its cutting edge design and architecture that was crucial to making London 2012 memorable, for all the right reasons. Without iconic designs such as Heatherwick's Cauldron and Hopkins Architects' Velodrome, and key design features such as the bold way-finding in the park from Surface Architects, it might have been a different story.

Without a licence however, businesses may not officially promote their involvement in London 2012.

Olympic Torch designers, Edward Barber and Jay Osgerby commented: "The story of our Olympic Torch enabled us to benefit from an incredible global platform provided by London 2012. Due to the embargo this wasn't the case for many other creative practices involved in London 2012. It's great news that the BOA have launched the Supplier Recognition Scheme. Design and architecture's massive contribution to the success of the Games can finally be celebrated. We encourage designers and architects to apply for the licence, tell their own stories and put our design and architecture industry on the world stage."

Jim Eyre of Wilkinson Eyre Architects – architects of the Basketball Arena – and Design Council Trustee remarked: "This is a great opportunity for architects and designers to tell the world about their contribution to the phenomenally successful London 2012 games."

Design Council will be hosting an

event this summer to profile and thank the designers involved in London 2012. From graphics and architecture to the cauldron and practically everything in between.

John Mathers, chief executive at the Design Council comments: "The London 2012 Olympic Games was delivered 'On time. On budget. Looking Good.' This has promised to set a benchmark for all future Games. We're looking at a huge export opportunity for London 2012 suppliers and some are already winning contracts based on their contribution, such as Aecom who have won the master plan competition for Rio 2012. We urge designers to celebrate this opportunity with us and sign up now."

"We're proud of our industry and want to shout about it to both UK and international audiences, including Rio, to grow sales and exports of British design. Please visit the Supplier Recognition Scheme website to apply for the licence and join us in celebrating our world-leading design and architecture industry."

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The ARC Show is a forum to explore the expanse of the lighting industry's constantly evolving product and technological capabilities, and with exhibitors including Erco, iGuzzini, KKDC and Astro Lighting, it's set to continue to do just that. The show, in collaboration with mondo*arc magazine, provides a creative and intelligent lighting exhibition for architectural, retail, interior design and prop-



Dior store in New York



Paddington Station

erty communities. This year it takes place at London's ExCeL 19-21 May, and its exhibitors' products span the breadth of architectural lighting to decorative lighting design.

Find the very best products from established brands who have worked on prestigious projects in the UK and worldwide. The impressive list includes iGuzzini's redevelopment of London's Paddington Station and Erco's scheme for the National Museum of Wales in Cardiff, not forgetting Rosco whose slim LitePads have been used to adorn the glamorous façade of the Dior store in New York. In addition, you can also see ALM, Alliance Lighting, Illumination Physics, Pharos Architectural Controls, Technilum, Vode and more.

Hear about the latest lighting issues and get expert design tips for free through the Conversation Series programme. On Sunday 19 May the show kicks off at 12.15pm with Peter Earle from Philips Lighting and Paul Nulty, a lighting designer, discussing how to avoid a lighting design kitchen nightmare. Monday will see industry legend Karim Rashid host a keynote session at 3.15pm, discussing how the move from analog to digital has changed our material world and how design will inform and social behaviours will change. Stay behind and see Karim DJ at the late night opening. The final day of the exhibition features two exciting talks for the lighting industry. At 10.15am, Peter Veale from Firefly Lighting Design will be sharing his insider secrets for designing hotel lighting with the 'wow factor'. This is followed at 11.15am by Keith Bradshaw from Speirs and Major conveying his thoughts on the changing role of the lighting designer.

Visitors can secure their free ticket to The ARC Show at www.thearcshow.com gaining access to all four shows and saving the £40 door fee.
Please quote invitation code **ARC18**

Astro Lighting at the ARC Show



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a chandelier-style bathroom ceiling light with shimmering glass droplets arranged in three tiers from a circular chrome base, with a glass surround.

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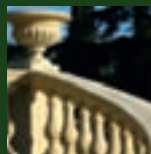
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COMMENT

The future of collaboration between technology and design

By Yonca Ersen, organiser of the **Urban Prototyping Festival**, architect/product designer and an academic at the University of Westminster. Resource management, consumption and regeneration are important and urgent challenges for architects and urban planners, as well as local authorities with decision making ability.

Can requirements of densely built cities and the wellbeing of society rely on low tech solutions alone? An opportunity to investigate deployment of smart, digital technologies for systematic assessment of cities and services may benefit all stakeholders in society. Planners, architects and designers can play a crucial role in identifying pressing needs and by assisting in the development, as well as deployment, of feedback mechanisms for urban space. Such feedback could be tailored to support the practice of ecology as a system, bring about a reassessment of interaction between people and space as well as use of IT as a utility within a sustainable paradigm.

It is important to expand knowledge transfer between

computer science and design communities. Through meaningful collaboration the sustainability agenda can be broadened. Converged goals and efforts could accelerate the practice of new economic models and reinforce green initiatives. Can this underpin a new architectural order, fresh typologies with novel, embedded technologies that lead to seamless communication of components that make up the built environment, without intruding privacy?

For participation in the development of useful prototypes, designers need to understand the limits of available technologies as well as future prospects. Computer science is a complex subject, which accelerates at great speeds and how it works is not clearly understood by the end users. For the design industry to play a strong part in exploring the digital economy agenda; technical language barriers need to be addressed and near future goals of two industry sectors have to be communicated clearly for efforts to complement one another. In this way, collaborative work can accelerate scalable, disruptive innovation.

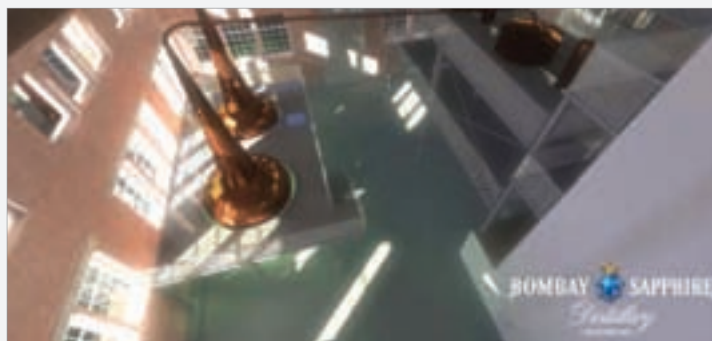
The Urban Prototyping London conference sessions aim to construct a fruitful dialogue among technology and design sectors. The programme for the conference session is not constructed to search for definitive answers but with an aim to provide a discussion platform, for inquisitive people among two communities instead. Because, curiosity may save the cat!



Bombay Sapphire® gin distillery achieves world's first Outstanding design-stage BREEAM sustainability accolade

The **Bombay Sapphire® gin distillery** at Laverstoke Mill, Hampshire has become the first distillery and first refurbishment to achieve an Outstanding design-stage BREEAM accreditation for its distillery process buildings.

The Outstanding design-stage rating given to the distillery process buildings at Laverstoke Mill means the buildings have achieved the highest level of sustainable construction, and are expected to be one of the most environmentally friendly distilleries in the world. The completed distillery will see a 60 per cent reduction in carbon emissions and nearly an 85 per cent improvement over what is required by building regulations. This is as a result of a number of specific technologies incorporated into the distillery's design, including power generation from the River Test which flows through the site. The Bombay Sapphire distillery process buildings



have been awarded an excellent score of 86.81 per cent, the second highest score awarded to an industrial building by BREEAM.

The accolade comes after a careful process that analysed contextual, economic, efficiency and technical feasibility complexities around the site, while meeting the specification of building energy efficiency improvements at Laverstoke Mill. The restoration of the

site also includes the installation of a combination of on-site renewable energy generating systems, such as power generating photovoltaic cells, a bio-fuelled steam-generating boiler and 6kW hydro-electric water wheel.

The resulting reduction in carbon emissions is particularly striking given that buildings at the site include restored and refurbished Victorian Mill buildings.

news bytes

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

HLM designed Preston Manor Lower School in Wembley shortlisted for three awards...

Ref: 29242

Sport England pilots university funding scheme for Quest and NBS...

Ref: 89710

So much to see at the May Design Series this May...

Ref: 58184

UK must tackle housing shortfall to cater for ageing population...

Ref: 38525



New ultra-slim line, 'A' rated profile designs

We are pleased to announce the launch of three new ultra-slim line profiles that extend the Beaufort Residential Casement Window range. These new profiles are based upon the highly popular and market leading Steel Replacement window, with the slimmest sightlines available at only 45mm per sash.

The new extended range of ultra-slim profiles includes flat appearance, stepped edge, feature look and, of course, the popular putty line steel replacement variants. They offer the most extensive choice yet when looking for that stylish and contemporary, maximum glazing appearance.

Features and benefits

- Four ultra-slim profile designs
- All A-rated under the BFRC WER's scheme and BRE Green guide
- Options include contemporary flat appearance, stepped edge, putty line look and feature look
- The industry's slimmest sightlines at only 45mm per sash
- Proven track record based upon the market leading product for last 4 years
- Kitemarked under BS4873 for performance
- All variants are 'Secured By Design' licensed and tested to PAS 24:2012



events

AWARDS

Greenbuild Awards

8 May, Manchester
www.greenbuildawards.co.uk

OAS Development Awards

14 June, London
www.oasdevelopmentawards.co.uk

British Homes Awards 2013

18 October, London
www.britishhomesawards.co.uk

CONFERENCES & SEMINARS

BFE UK

7 May, London
www.bfeuk.com

Design in Mental Health Conference and Exhibition

14 - 15 May, Birmingham
www.designinmentalhealth.com

Healthcare Schools & Secure Environments

3 - 4 July, Harrogate
www.ascentevents.co.uk/hsse-events.php

EXHIBITIONS

Ensuite by Catherine Anyango

Until 20 April, London
www.rocalondongallery.com

Venice Takeaway: Ideas to Change British Architecture

Until 27 April, London
www.architecture.com/whatson/

Light Show

Until 28 April, London
www.southbankcentre.co.uk/whatson

The Banality of Good: Six decades of New Towns, Architects, Money and Politics

Until 10 May, London
www.architecture.com/whatson/

Flow Fields, Architecture Association

Inter-professionals Studio
 29 April - 18 May, London
www.rocalondongallery.com

Project Space: Ruins in Reverse

Until 24 June, London
www.tate.org.uk

Chromazone: Colour in Contemporary Architecture

Until 21 July, London
www.vam.ac.uk

Designs of the Year 2013

Until 7 July, London
<http://designmuseum.org/exhibitions/>

FESTIVALS

National Self Build Week (NSBW)

4 - 12 May
www.nasba.org.uk/nsbw/

Clerkenwell Design Week

21 - 23 May, London
www.clerkenwelldesignweek.com

UP London Festival

Until 26 June, London
<http://uplondon.org/>

City of London Festival

23 June - 26 July, London
www.colf.org

London Design Festival

14 - 22 September, London
www.londondesignfestival.com

TALKS, LECTURES & DEBATES

Concrete Elegance:

A European Focus
 24 April, London
www.buildingcentre.co.uk/events/

TOURS

Eco Open Houses

15 - 16, 22 - 23 June, Brighton
www.ecoopenhouses.org

Open House London

21 - 22 September, London
www.londonopenhouse.org

TRADE SHOWS

Greenbuild Expo

8 - 9 May, Manchester
www.greenbuildexpo.co.uk

May Design Series: The ARC Show

19 - 21 May, London
www.thearcshow.com

May Design Series: kbb LDN

19 - 21 May, London
www.kbb.co.uk

May Design Series: INTERIORS LDN

19 - 22 May, London
www.interiorsuk.com

May Design Series: DX

19 - 21 May, London
<http://dx-london.com>

Eco Technology Show

14 - 15 June, Brighton
www.ecotechnologyshow.co.uk

The Energy Event

10 - 11 September, Birmingham
www.theenergyevent.com

Energy Efficiency & Renewables Awards

12 September, Coventry
<http://energyefficiencyexhibitions.co.uk/awards/>

100% Design

18 - 21 September, London
www.100percentdesign.co.uk

Timber Expo

24 - 25 September, Birmingham
www.timber-expo.co.uk

Energy Efficiency Exhibitions, incorporating Renewables Roadshow

10 September, Exeter
 12 September, Coventry
 17 September, Newcastle
 19 September, Edinburgh
 24 September, Surrey)
 26 September, Manchester
www.energyefficiencyexhibitions.co.uk
www.renewables-roadshow.co.uk

Healthcare Estates

8 - 9 October, Manchester
www.healthcare-estates.com

Education Estates

26 - 27 November, Manchester
www.educationestates.com

adf

architects datafile



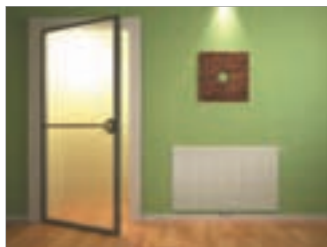
website

The Architects Datafile (ADF) website is an online provider of past and present products and news items for the architect or specifier. Adfonline.eu is a one-stop source for all the latest press releases providing any visitor with access to information about products and services that they may require for their project as well as news relevant to architectural developments. From the website, you can find links to digital issues that have live links to advertisers' sites, sign up to the fortnightly email newsletters, as well as a news blog that offers daily email alerts to keep you as informed as possible.

www.adfonline.eu

cpd focus

STELRAD'S NEW CPD SEMINAR



Stelrad has received accreditation by RIBA as a CPD seminar provider. The company's initial CPD seminar on offer to architects is based on explaining the technical differences between serial and parallel feed radiators and highlights how new serial feed technology, as found in its new Radical radiator, helps reduce fuel costs and a property's carbon footprint. Details on this and other CPD seminars can be obtained by enquiring by telephone or email.

01709 578950
info@stelrad.com

enq. 111

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. 112



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enq. 113

continuing professional development

Maintaining and improving professional competence, skills, abilities and knowledge

SPECIFYING INSULATION FOR INVERTED FLAT ROOFING

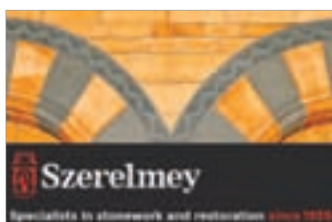


RIBA has approved a new CPD online module from **Dow Building Solutions**, manufacturer of STYROFOAM, called *Specifying insulation for inverted flat roofing*. It offers information on extruded polystyrene products as an insulation choice for inverted flat roofs and gives key pointers to bear in mind when reviewing U-value calculations and specifying insulation. The CPD is in the 'Designing and building it' section and is worth double points.

dbasuk@dow.com
www.styrofoam.co.uk

enq. 114

CPD SEMINARS FROM SZERELMEY



The Cleaning and Repair Of Natural Stone, Terracotta, Faience and Brickwork - the best practice approach to cleaning and repair of buildings. Case studies highlighting traditional cleaning techniques are detailed.

The Design of Natural Stone, Non-Load Bearing Cladding and the *Failure of Cladding* focuses on selection criteria and design of natural stone with guidance given on good practice, building regulations and sustainability issues.

020 7735 9995
www.szerelemey.com

enq. 117

FIVE RIBA APPROVED CPD SEMINARS FROM TRITON SYSTEMS



Triton Systems, suppliers of systems for basement waterproofing, concrete waterproofing and green roof construction, have incorporated the benefits of specifying BIM objects into their five RIBA approved CPD seminars. Three of the seminars cover new build and existing basement waterproofing and focus on the requirements of BS 8102: 2009 (the Code of Practice for Protection of Below Ground Structures), including the grades of waterproofing required, the types of waterproofing systems available and relevant standards and regulations. A seminar on *Waterproofing Concrete Structures Below Ground* looks at the benefits of using concrete in basement construction as well as the available waterproofing systems as defined in BS 8102: 2009; and a seminar on *Green and Living Roofs* focuses on the benefits of green roofs, design principles and the construction process. Triton was one of the first manufacturers in the construction industry to have its products included in the NBS National BIM Library and architects can now download elements of structural waterproofing and concrete waterproofing systems, ground gas barriers and green roof water storage membranes as BIM objects, directly for insertion into a building model, via Triton's page at www.nationalbimlibrary.com/triton.

01322 318830
www.tritonsystems.co.uk

enq. 118

RESIN BASED SURFACING



Resin Based Surfacing is the title of the popular CPD seminar designed for landscape architects, designers, architects, developers and local government provided by **Addagrip**. The seminar provides information on resin bound, resin bonded and tree pit surface finishes along with details of base build up specifications and SUDS. Addagrip CPD's are available nationwide and run for approximately one hour but can be tailored to suit.

01825 761333
www.addagrip.co.uk

enq. 115

IOSH MANAGING SAFELY COURSE



The IOSH Managing Safely Course is suitable for managers & supervisors in any sector, and any organisation. It's designed to get managers up to speed on the practical actions they need to take to handle health and safety in their teams. Successful delegates are awarded an IOSH Managing Safely certificate. The course covers introducing managing safely, assessing & controlling risks, understanding your responsibilities, identifying hazards, investigating accidents & incidents, measuring performance, and protecting our environment. Held at the Chartered Institute of Arbitrators, London on 13, 14, 15 & 16 May. £410 +VAT per delegate includes lunch refreshments & documentation.

020 8874 7000
bernadette@barkerconsultants.net

enq. 119

THROWING LIGHT ON WASHROOM SPECIFICATION



Amwell Systems *Throwing Light on Washroom Specification* CPD provides guidance on specifying cubicles, ducting and vanity units. They will help their audience understand material types, appropriate and inappropriate usage, product selection, design considerations and also life expectancy. Amwell's CPD will raise awareness of implications of approved Document M and relevant British Standards on washroom design.

01763 276200
www.amwell-systems.com

enq. 116

SPECIFYING HEAT RECOVERY VENTILATION IN THE DESIGN OF HIGH CODE LEVEL & PASSIVHAUS PROPERTIES



Zehnder Comfosystems is proud to announce the launch of its RIBA Certified CPD entitled *Specifying heat recovery ventilation in the design of high code level & Passivhaus properties*. With building regulations calling for increasingly airtight homes, and fuel prices rising, effective and efficient heat recovery ventilation is vital. This hour long seminar explains heat recovery ventilation methodology and how to successfully specify it in high code level homes and Passivhaus projects.

01903 777333
www.comfosystems.co.uk

enq. 120

8th & 9th May 2013
Manchester Central



GreenbuildEXPO

SUSTAINABLE BUILDING AND REFURBISHMENT EVENT

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Smart Buildings

Integrated Renewable Systems



For more information visit:
www.greenbuildexpo.co.uk

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The easy way to cut through the red tape

The Eco Technology Show 2013 takes place at The Brighton Centre on 14-15 June

To be an architect these days is challenging. The plethora of regulations and red tape, increasingly related to environmental impacts, makes it tough to stay on top of what's permitted and what's not.

No sooner have you got your head around Planning Policy Guidance Notes, the 14 parts of the Building Regulations and the Code for Sustainable Homes then it's time to tackle Lifetime Homes, Secured by Design and British Standards. Yet these are only some of the rules and guidelines architects face.

Of course, there's a debate about whether there is too much red tape in the UK – part of RIBA's ongoing exhibition, *Venice Takeaway: Ideas to Change British Architecture*, features Liam Ross' and Tolulope Onabolu's assessment of what we can learn from the less regulated building sector of Lagos, Nigeria.

But for now at least, regulations are an integral feature of construction in this country. What architects have to do, therefore, is to stay on top of them, pass on in clear terms what new and existing rules mean to clients, and ensure they know about and understand the latest construction technologies and products.

The Eco Technology Show 2013 places education and networking at the heart of its two-day exhibition (14-15 June – Friday is trade, Saturday is for the public) to help architects achieve these objectives.

After a successful debut last year, which saw more than 4,000 visitors interact with 115 exhibitors, this year's show has switched to a central Brighton venue with a host of new features.

The Advisory Hub is one such innovation. This is a series of bookable meetings allowing, for example, architects to talk to experts about the latest regulations and incentives.

Through its conference and two-day seminar programme, The Eco Technology Show gives legislative, regulatory and market context to the products and services on offer. Conference topics this year include: the Green Deal for SMEs – Green Deal installer courses and benefits of SMEs working together; Building Information Management (BIM) what you need to know; and Planning regulations in the context of energy efficiency & renewable energy, permitted development & conservation areas.

"The Eco Technology Show is a must-attend for architects who are serious about taking their business to the next level," says Nicola Gunstone commercial director of The Eco Technology Show. "It gives them the chance to interact with buyers, sellers and members of the public, and provides the information they need to thrive in a competitive sector."

www.ecotechnologyshow.co.uk

events



Go to the website and register for your free ADF ticket now, quoting promotional code ADF01

The RIBA exhibition runs until 27 April



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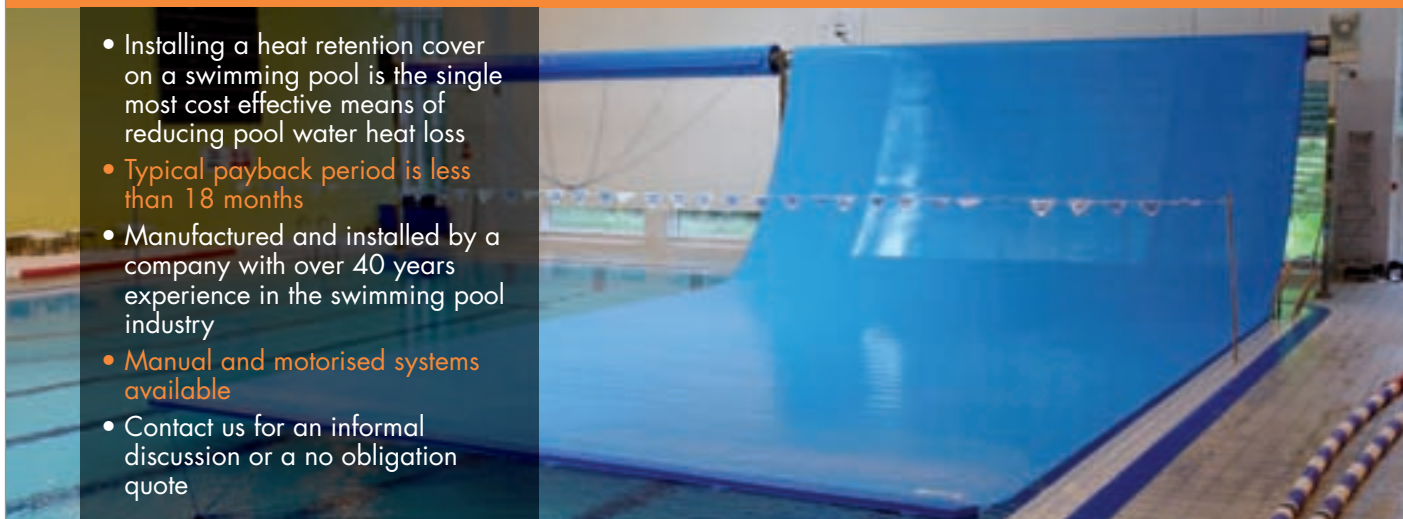
www.plasticapools.net

info@plasticapools.net

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enq.121

New Evolution for The ARC Show!

**For architects,
designers, retailers and
developers.**

The ARC Show is now one of four districts that form **The May Design Series**, a new, intelligent, commercially focused event for the architectural, design, property and retail communities.

Created by UBM and shaped by mondo*arc and darc magazines, The ARC Show represents the best in high end architectural and decorative lighting specification.

"This event is for the design industry and that is what appeals to me. With so many new technological advances for us to show, The ARC Show will provide ERCO with the opportunity to meet a wider audience and be part of this bigger design and specification show."

**Chris Tiernan, Managing
Director, ERCO Lighting.**

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the arc show

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Excel, London | 19 – 21 May 2013
www.thearcshow.com

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arc@mondiale.co.uk or call +44 (0)161 476 8350

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/ 19-21
MAY 2013
EXCEL
LONDON



INTERIORS LDN

Safetytread

Safetytread products are a range of bespoke, premium, high quality anti-slip stair nosings manufactured in the UK. The products are long lasting; made from recycled aluminium profiles and filled with a long lasting 'carborundum' material. Safetytread is environmentally friendly and provides a more economical solution than cheaper plastic materials. The treads will add excellent slip resistance to any staircase. They can be tailor-made to fit and are available in a wide range of colours. Not only do they give an professional finish, they also highlight the importance of the health and safety of staff and customers.

enq. 122



Shorguard

For more than 25 years, JP Whelan Plant has been a key player in the edge protection market. During that time its SG4 range of freestanding guardrail systems has been installed nationwide across a wide range of public and private sector buildings. The proven, cost effective solution for flat roof applications SG4 is available for sale or hire. Working closely with many building professionals including architects the company provides a free design service and site survey visit.

enq. 126

editor's focus

ROCKPANEL

'The List', the most highly populated and culturally diverse district of Hannover, is the area where the residential building cooperative Gartenheim eG has renovated a multi-family residence. Dr Günter Haese, director of Gartenheim eG, has developed, together with the architect Larisa Kozjak, the idea of renovating the façade in a way that would turn the building into a modern jewel. Rockpanel® façade panels in six carefully-chosen RAL colours were 'knitted' into a stimulating, alternating light and dark coloured pattern all around the building. To find out more, go to the ADF product blog: adf-products.blogspot.co.uk and enter Ref: 54992 in the search bar.

enq. 123



Rega Ventilation

Now with thirty years' experience of manufacturing heat recovery ventilation systems in the UK Rega continue to develop new high efficiency products. The latest range of central air units achieve over 90 per cent heat recovery and specific fan power levels as low as 0.51 w/l/s. In addition to maximising efficiency special measures have been taken to ensure low noise operation including sound breakout lining of the central air unit and anti-vibration mounting cradles. When the air unit is combined with Rega's acoustic duct products a quietly running system is guaranteed.

enq. 124

Thrislington Cubicles

In over 40 years of business, Thrislington installed their cubicles, lockers, vanity units and panels in 100's of award winning buildings throughout the world, and won a fair few design and product awards themselves. Thrislington are pleased to announce that they'll soon be launching a new product brochure and website. This will have some fantastic new innovations and designs, such as the new top of the range Flow Lite cubicle system along with a few developments to some of the old classics.

enq. 125

Formica Group

Formica Group remains at the cutting edge of building envelope art and science with VIVIX® architectural panels, the innovative lightweight rainscreen cladding solution that redefines the landscape of contemporary construction for both new builds and renovations. With a decorative surface on both sides, VIVIX panels offer opportunities to play with colour and shape. As part of a ventilated façade system VIVIX panels contribute to a building's thermal efficiency and its protection bringing it up to 21st century standards. VIVIX panels are manufactured in Europe to ISO 9001 standards and cause minimal environmental impact as determined by Formica Group's Life Cycle Assessment (LCA).

enq. 127

Continued overleaf...

editor's focus

Sofpave

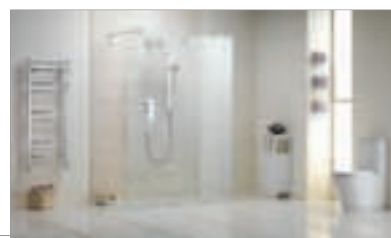
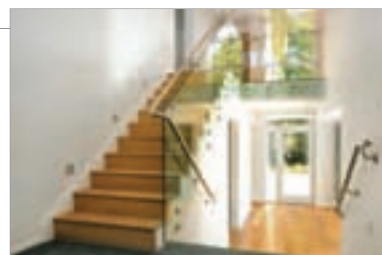
Sofpave Limited specialise in the sourcing and supply of environmentally friendly landscape and building products. All products utilise recycled waste materials making them the perfect sustainable option to help reduce the carbon footprint of any project. In many cases the production process itself reduces the amount of water and oil used, or reduces the amount of Sulphur Dioxide produced during their manufacture. These products have fantastic environmental credentials and can help address such issues as climate change.

enq. 128

Victoria Plumb

With the popularity of the wet room continuing to increase; Victoria Plumb, the leading online bathroom company have announced the launch of a brand new minimalist glass panel range that allows the most stunning wet room designs to be created. This luxurious new range is available from 1,000mm to 1600mm and all of the sizes are produced in 10mm thick glass to offer strength and durability within the bathroom. The glass panels have a frameless edge and sleek chrome profiles.

enq. 130



Regal Balustrades

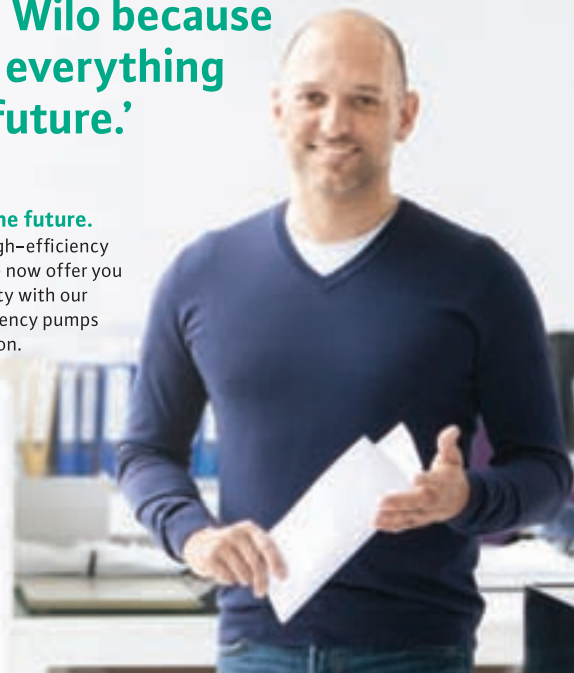
Regal Balustrades are an established specialist company providing prestigious balustrades and architectural metalwork systems to the commercial, retail and domestic sectors nationwide. They have a high reputation in providing architectural systems that are unique and incorporate aesthetically pleasing designs in conjunction with the surrounding area of application. "The performance in providing solutions to often testing and impossible demands has been remarkable and in consequence we are more than willing to commend the work completed by Regal Balustrades." – said a client.

enq. 129

'I plan with Wilo because they know everything about the future.'

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Greenbuild stand E51

enq. 131

GreenbuildEXPO

The latest exhibitors to sign up for Greenbuild Expo 2013 include UK Green Building Council, BASF, E.ON, Plumb Center, Jewson, Aggregate Industries and Ecopod. These companies will all be heading to Manchester for 8 - 9 May this year to take part in the fifth Greenbuild Expo, an exhibition and conference covering all aspects of sustainable buildings

The event is completely free to attend and offers a packed schedule of debates, workshops and seminars, as well as exhibitors showcasing the latest green products and solutions. For the first time the 2013 event will also be home to CO₂t, an event dedicated to sustainable transport.

Following its success at the 2012 event, the Green Deal debate area will be at the heart of the show, giving visitors the chance to hear from key organisations and government departments, including DECC and CLG, on what Green Deal means for the built environment and how we can all make the most of this flagship green policy. The debate area will also give Green Deal providers a platform to explain how the low-carbon retrofit model works, and how everyone from installers to local authorities can get involved. In addition, the themed seminar rooms will offer something for everyone, with sessions on everything from green materials and sustainable methods of construction, to low-carbon design and energy-saving refurbishment.

Another feature returning for 2013 is Ignition, the UK's only woodfuel event, which runs as part of Greenbuild Expo. With a dedicated seminar programme and exhibition area, Ignition13 will include advice on the Renewable Heat Incentive (RHI), Microgeneration Certification Scheme (MCS), the various fuel types available and much more. There will also be sessions on how woodfuel will work as part of the Green Deal.

Other highlights of Greenbuild Expo 2013 will include:

- Sustainable Cities – green solutions for commercial buildings from schools to hospitals, as well as high-density housing, focusing on smart buildings.
- Training Hub – find out the skills you need to get ahead and try out FREE taster training sessions.
- Greenbuild Awards – all the finalists of the second awards will be on display, and many will be presenting their shortlisted



projects, explaining how they have achieved impressive energy savings.

- Seminar content covering newbuild, energy management, sustainable materials, methods of construction, zero carbon buildings, renewable energy, buildings as power stations, legislation and energy efficiency. There will also be CPD-accredited seminars in various topics.
- A wide mix of exhibitors including University of Salford, BMF, Aggregate Industries, NHBC Foundation, CIBSE, Mitsubishi Electric, NAREC, Jewson, Zero Carbon Hub, Klobber, Pegler, NAPIT, BRE and many more.
- Green Deal help zone – an advice clinic run by UKGBC answering all your Green Deal questions.



Airflow are on display at Greenbuild and will be examples of the award winning iCON and Quietair fan ranges through to MVHR units that comply with the stringent Passive House standard. Our Airflex Pro whole house air ducting system is also recognised by architects and installers as one of the quickest and most efficient methods of delivering ventilation within a building. Visit Stand E38.

enq. 132

Greenbuild Expo is completely free to attend and takes place from 8-9 May at Manchester Central. To register visit www.greenbuildexpo.co.uk and follow @greenbuildexpo on Twitter for show updates. The 2013 event is sponsored by Plumb Center, University of Salford and UKGBC

New Klober products at GreenbuildEXPO

Greenbuild
stand E1 & F1



At GreenbuildEXPO, Klover (stands E1 & F1) will be launching the latest underlay in its Permo range and its Uniplus Solar Panel Support. Permo RS 'Extreme' has been designed for roofs such as monopitch extensions where the minimum recommended pitch can't be achieved. It provides a combination of high vapour permeability and waterproofing. The Uniplus Solar Panel Support removes any stresses on tiles or slates caused by PV rail fixings. It can be used with most tiles and slates. Its variable fixing hole pattern makes life easy for the installer while adaptors are available to suit a wide variety of PV rail systems.

klover@yourresponse.co.uk www.klover.co.uk

enq.133

Avonside hosts Lightway light tubes at Ecobuild



Avonside Group Services' stand at Ecobuild featured Lightway light tubes, installed by Avonside Daylight on the award-winning RoofSpace I-Roof™ system. Avonside Daylight has an exclusive deal to install the crystal light tubes, which capture natural daylight to brighten dark rooms – reducing the need for electric lighting – in domestic and commercial properties across Britain and Ireland. The light tubes from Avonside Daylight include a self-cleaning, discolour-proof, Bohemian crystal dome, which optimises available light, a crystal glass diffuser for 30 per cent greater light spread than other systems.

0800 731 5982 www.avonsidegroupservices.co.uk

enq.134

Eco-technology success at Ecobuild



Altecnic is reporting a positive change in attitude towards centralised heating systems following significant sales leads for its award winning heat interface units at Ecobuild. Enjoying a busy three day show, Altecnic welcomed visitors onto its product packed stand who were keen to find out more about the efficiency benefits of its extensive range

of direct and indirect heat interface units. One of the UK's leading manufacturers and suppliers of accredited plumbing equipment also launched the next generation of technologically advanced energy metering systems and data loggers designed to enhance the energy efficiency benefits of its HIUs.

enq.135

Vent-Axia JetDry3® hand dryer launched



Vent-Axia has launched an innovative new hand dryer, the JetDry3®. Featuring the latest drying technology, the patented ergonomic hand dryer boasts a unique ceramic plate that absorbs water then evaporates it, as well as an impressive 10-second dry time. A cost effective alternative to conventional hand dryers and paper towels, the ergonomic JetDry3® has been designed to allow users to dry their hands in a more comfortable way – horizontally, just like they wash them. At the same time users will be able to watch while the water disappears from their hands into the unique ceramic plate.

0844 856 0590 www.vent-axia.com

enq.136

New Hauraton Service channels



Nowadays, an essential requirement for any venue hosting national or international events is the safe management of cables needed to facilitate multi-media communication and TV broadcasts. The new **Hauraton RECYFIX®** Service channel series is based on channels made from 100 per cent recycled polypropylene / polyethylene (PP-PE).

The seven channel sizes offered range from 160 to 420mm wide, the largest weighing only 14.8kg, so they are easy to man-handle on-site. The channels can be supplied with either ductile iron covers – load Class E600 or galvanised steel covers – load Class C250. The SIDE-LOCK boltless ductile iron covers are easily fitted, and removed allowing quick access to the cables.

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enq.137

adf

newsletter

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Neaco's bespoke balustrade featured at iconic community project



Neaco has supplied a bespoke balustrade specification at The Street, a £6.5 million world-class youth and community facility in the heart of Scarborough. Designed by Seven Architecture and built by Willmott Dixon, the 3,000sq m, four-storey building provides a wide range of education, leisure and community support services and features Neaco's Spectrum balustrade in powder coated aluminium in stairwells and an atrium where the balustrade has been extended to twice the standard height to meet design requirements.

Neaco's national sales manager Richard Richardson-Derry said: "Neaco are delighted to have contributed towards this outstanding community project with our Spectrum system forming part of its highly impressive design scheme. At Neaco we pride ourselves on our design flexibility and The Street is the latest of numerous projects in which our technical team has developed a bespoke solution outside of our standard specification."

Requiring no welding for assembly, Spectrum's versatile modular system has the capacity to meet virtually any design permutation or installation requirement. The system is also available in satin polished stainless steel or an aluminium/stainless steel combination.

enq.138



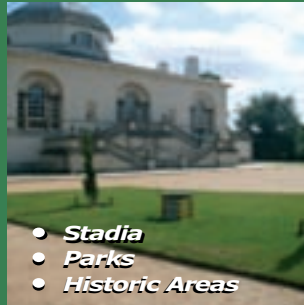
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The Chiswick House Project.

Chiswick House having undergone a multi-million pound restoration is ready to safely host a wide range of events that will increase revenue and introduce more people to this historic site. The Pop up Power installations were an important consideration when planning the restoration of this stunning historic area.

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enq.139

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enq.141

Cambridge University sports a new home

SDC and Arup Associates have combined to produce a distinctive new sporting hub for university life in Cambridge, reports Steve Menary

The idea behind a design and build (D&B) contract is that a contractor can ally their technical nous to architects' design inspiration to create a project that offers both value and keeps to the clients' brief. That is what Arup Associates and SDC have succeeded in doing at Cambridge University's distinctive new sports campus development.

SDC architect Dan Changer says: "Arup Associates were novated post tender to SDC and continued to develop their original design with us. We used the trade contractors to provide value, working closely with Arup Associates to provide a final product that aligns with the Clients aspirations."

The scheme had been in the pipeline since the turn of the Millennium with a design that has evolved significantly since then, so that the building can be built in phases as funding is secured. The development forms part of the university's master-plan for a burgeoning new West Cambridge campus off Madingley Road and is split into three distinct phases. Valued at £16 million, phase 1a comprises the main building. Arup Associates achieved planning permission for the overall scheme in 2001 but with changes subsequently made, a new application had to be submitted for this initial tranche of work.

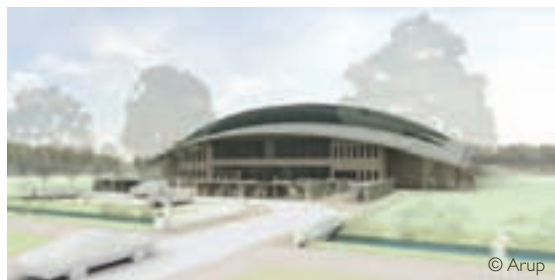
The site borders the green belt and there were rumblings of discontent from some locals when the proposal went to the city council's planning committee in January 2012. Despite these concerns, the design won overwhelming approval and was passed by seven votes to one with the distinctive north lights or gills proposed by Arup Associates for the roof receiving many plaudits.

A plethora of projects are springing up on the West Cambridge site. National contractor Willmott Dixon is building a £41 million home for the university's Department of Materials Science and Metallurgy. The company were among a host of major contractors interested in the sports project. Other major contractors, including RG Carter, VINCI, Morgan Sindall and GB Building Solutions, also put in bids but SDC's proposal emerged the winner from the tendering process and the Bedford-based contractor's team began work on-site in April 2012.

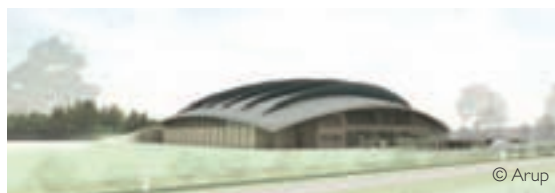
Those characteristic six Verendial arches – or 'gills' – as the site team describe this element of the project, have been specified by Arup Associates as part of a desire to achieve a more sustainable design that reduces electricity consumption and lowers the carbon footprint.

The environmental features are enshrined into the building and the desire to naturally light and ventilate has driven the form that the steelwork has taken

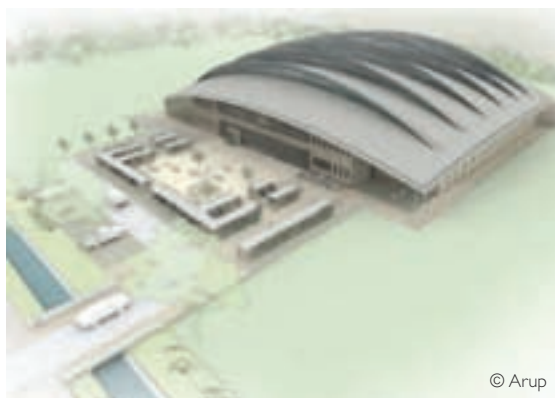
Dan Changer, architect, SDC



© Arup



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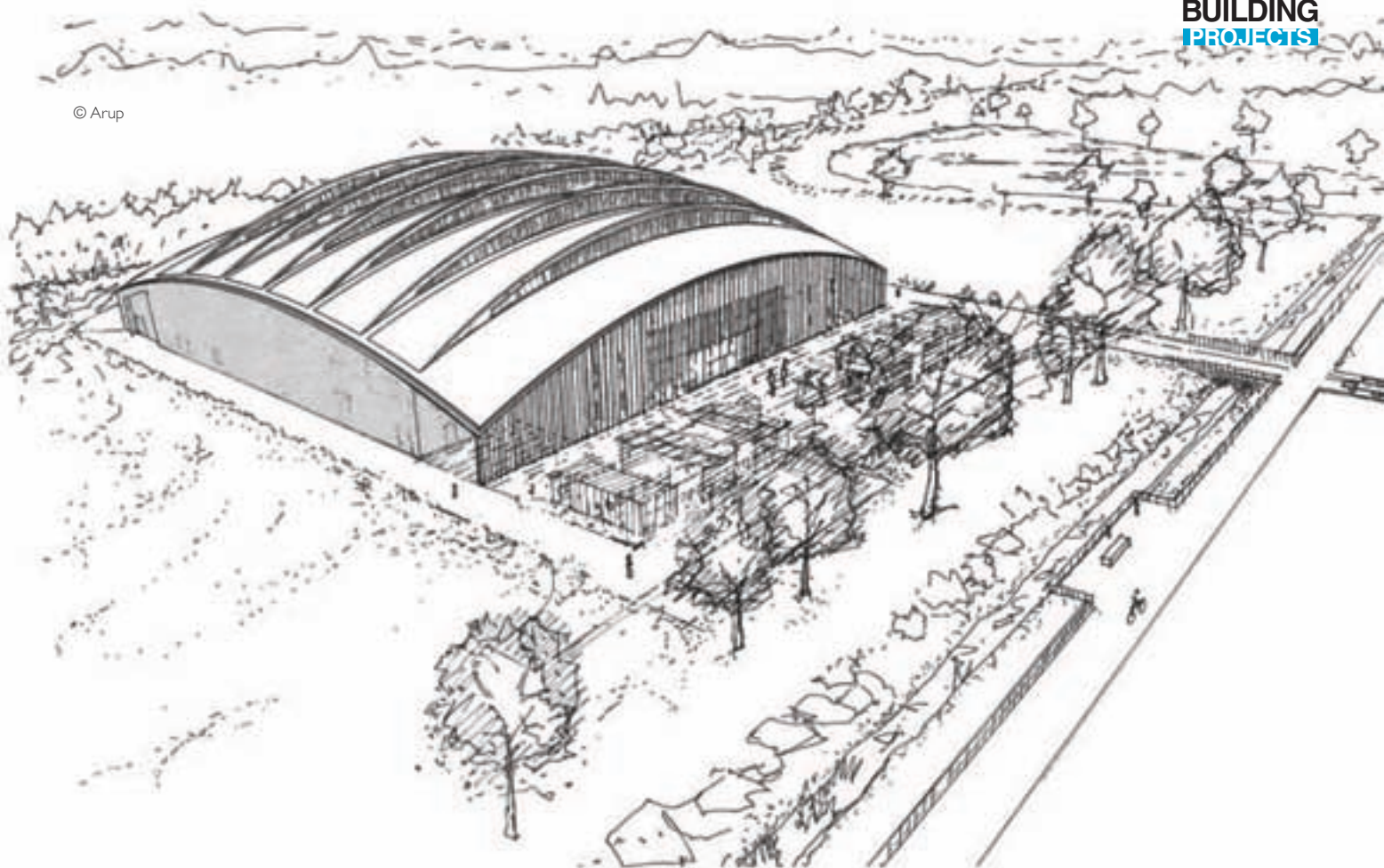


© Arup



© Arup

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Changer explains: "The structural design created an umbrella for the building to sit under. The environmental features are enshrined into the building and the desire to naturally light and ventilate has driven the form that the steel-work has taken."

"The steel truss gills are in-filled with north facing vertical glazing, part of which contains openable louvres tied into the building management system. Sports spaces generally need to be about 16 degrees and most of the year the building can be naturally ventilated and lit during daylight so that a large percentage of the energy bill will be reduced."

The building is comprised of two storeys and the steel roof structure sits on a single storey concrete frame. As work has progressed from the drawing board and CAD, the design has developed and changes have been made as SDC tallies the design with the realities of the expense it produces.

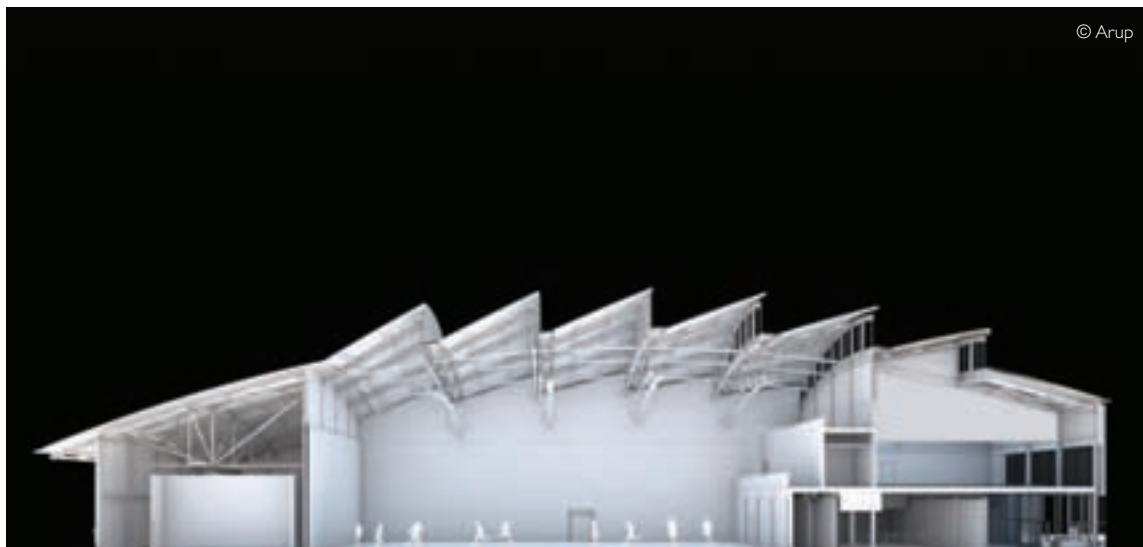
"The original proposal was for external block walls with insulated render. We decided on a structural steel frame for cost reasons to get rid of the scaffold. This allowed us more workable space. It was more expensive in material terms but the programme benefits outweighed the material costs," Changer explains.

Continued overleaf...



© Steve Menary

A strong but permeable façade expressing the arched geometry of the roof



The steelwork design was also tweaked to allow SDC to separate out the different trades and reduce over-laps. Changer says: “The roofing and cladding contractors could work independently of each other and not get in each other’s way, only coming together at the very end.”

Another change introduced was dropping a proposal in the original specification for the soffit in the roof structure to be covered in aluminium cladding. “We proposed to use a pre-finished metal deck because we didn’t want to come back into a 24-metre space to fit this aluminium cladding,” adds Changer. “Everyone seems glad with the value engineering we have introduced.”

Within eight months of beginning work on site, SDC had the building temporarily weatherproofed. “The steel was being fabricated off-site as the ground floor concrete frame was being built,” says Changer. “After that we had six weeks to put the steel frame up.”

A vapour control mechanism was used to stop condensation forming in the roof void, while externally an insulated render system was specified to provide greater thermal efficiency to work in tandem with the ventilation provided by the

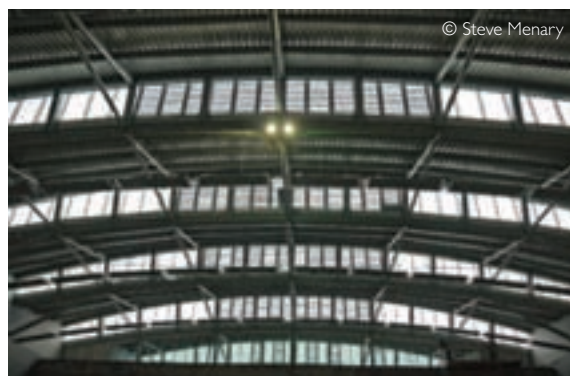
roof design.”

Another distinguishing facet of the design will be the external front façade, which comprises white blocks of insulation bonded to cement particle board and rendered utilised as a back drop to a vertical glue lam timber screen through which the buildings interiors emerge, creating a strong but permeable façade expressing the arched geometry of the roof. Through the façade screening visitors will be able to view the main reception foyer and the active sporting areas above and beyond. The ground floor will also include a weights room, featuring a plyometric track for jump training. The interior walls are block-work but many parts are – unlike some sports facilities – being decorated.

“You can see exposed and painted block-work but the university has gone to the expense of plastering the walls in the public areas,” says Changer.

Sports halls are measured by Sport England by the amount of badminton courts that can be included. At Cambridge, the main hall will be able to house eight badminton courts and also cater for basketball, netball and Korf Ball.

The main hall on the ground floor will be completed as part





of the first phase but some areas, from the squash courts to space for a coffee outlet will not, as the initial work does not include all of the fit-out.

This should change as phase 1b will see five squash courts and a circuit training area built. This phase will also provide courts for two games that are not so popular outside of the UK's leading public schools and ancient universities, but still remain very much part of sporting life in Cambridge.

Rugby Fives is similar to handball, but played in an enclosed court not dissimilar to one built for squash. A Rugby Fives' court traditionally has a concrete floor and four walls that can be stone or concrete, but are usually lined with plaster. Eton Fives is a derivative of Rugby Fives but played by teams of two in a three-sided court with a left-hand wall interrupted by a buttress halfway up the court. An Eton Fives court also has a change in levels, traditionally of 6 inches across the length of the court.

Two further phases will also follow with a tennis court mooted in the second phase and a 50-metre swimming pool the centre of the third stage. These buildings will be built either side of the domed complex being built by SDC, but both are dependent on funding.

The body responsible for building the campus is known as the Sports Syndicate. The University has loaned the Syndicate £10 million for the first phase. Another £5 million has been raised by the University's development office, while the remaining £1 million will come from the sale of building's housing a physical education department and university gym at the historic Fenner's Playing Field site.

Work peaked in February and March this year with around 50 construction workers on-site. SDC is scheduled to finish work on June 24, 2013 with the centre to open in September, ready for the start of the Michaelmas term. With universities increasingly in global competition, Cambridge faces competition not just from other British universities in the upper echelon Russell Group but also abroad. The new sports campus forms part of a need to meet that competition head on.

Vice chancellor Professor Sir Leszek Borysiewicz says: "Its environmentally friendly and sustainable design will be of a standard befitting Cambridge, and its prominent position on the West Cambridge campus – the University's science and technology hub – will make the campus a beacon for our athletic, academic and social life."



Project:
Sports Centre Phase 1
Location: Cambridge
Value: £16 million
(first phase only)
Gross floor area:
6,500 square metres
Client:
Cambridge University
**Multi-disciplinary
consultant:** Arup
**Design & Build
contractor:** SDC
**Mechanical &
electrical contractor:**
Kershaw
Windows contractor:
JPJ Installations
**Scaffolding
contractor:** Prestige
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Focus on Lee Valley White Water Centre

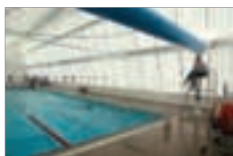


When Lee Valley White Water Centre opened its doors for the Olympic canoe and kayak slalom events last July those doors were **Reynaers Aluminium** Vision 50, designed for the highest levels of performance. Merging effortlessly within the tranquil setting of Lee Valley Regional Park, the

Centre sits alongside the main lake overlooking the slalom courses, the largest of which is 300 metre long with a testing 5.5 metre descent of fast flowing, white water. In order to provide uninterrupted views across the venue Faulkner Browns Architects, who specialise in work for the sports and leisure sector, designed a building that readily opens up with runs of Reynaers high insulation CW50-HI curtain walling looking out onto an expansive viewing deck.

enq. 142

Refurbished daylighting aids swimmers

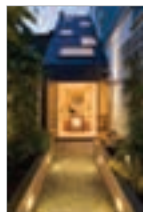


The University of Liverpool Sports and Fitness Centre pool, built in 1966, has been transformed by using **Stoakes Systems'** Kalwall to replace the existing single glazed bolted glass assembly. The £2.5 million refurbishment was designed by Atkins. Replacement of the glazing on the Oxford

Street side of the pool with this environmentally-friendly cladding and roof lighting system was a major element of the refurbishment. The Kalwall not only reduces the amount of energy needed to warm the pool in winter, while keeping it cool in summer, but also provides privacy. The translucent system transmits diffused natural daylight, which is of particular advantage for swimmers and life-guards because it reduces 'veiling' glare on the surface of the water.

enq. 144

Kooltherm keeps it slim



Kingspan's Kooltherm range's ability to deliver outstanding thermal performance, from minimal insulation thicknesses, has been used to full effect as part of the retrofit of an extraordinarily narrow house in central London. Slim House, a mid-terrace in Clapham, London, measures just 2.3 metres across internally. The plot was originally used as access to stables from the high street and many of the rooms in the building were cramped and gloomy. Architects Alma-nac were hired

to design an extension for the rear of the property. The new building layout is designed to make maximum use of space, with every nook and cranny utilised to keep the rooms uncluttered.

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enq. 143

Sound insulation from Hush Acoustics



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Hush Acoustics manufactures sound reducing products and systems for residential buildings including, holiday dwellings, hostels, hotels and universities halls of residence, to name a few. All Hush products and systems are sourced responsibly from sustainable and recycled raw materials and exceed the requirements of UK Building

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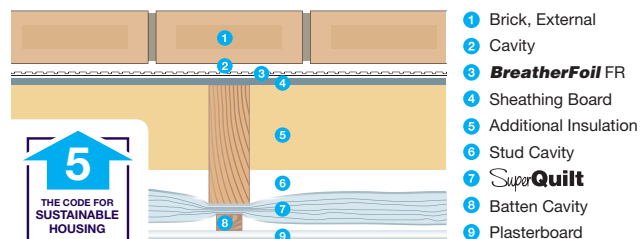
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enq. 147

New sink range for commercial applications



Reginox has launched a brand new range of sinks, taps and worksurfaces aimed specifically at the commercial market. The Regi-Commercial Hygienic range has been purpose-designed to meet the needs of commercial, public or retail areas where, due to high frequency usage, hygienic stainless steel products are often a

prerequisite. The range includes stainless steel sinks available with or without overflow and stainless steel worksurfaces that can include integrated sinks or washroom vanity bowls. A range of taps from leading supplier Pegler, including lever action options for the less mobile, also form part of the offer.

01260 280033 www.reginox.co.uk

enq.148

Levolux leads the way at Brooklands

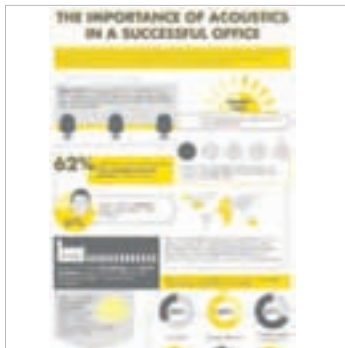


Velocity is a new £15 million speculative office development in Weybridge, which combines inspirational design with operational efficiency, thanks to a host of cutting-edge features, including an innovative solar shading solution from **Levolux**. The BREEAM Excellent rated development is encased by glazed curtain walling, with clear and fritted glass applied across all elevations. Levolum developed a comprehensive

external solar shading solution comprising its popular Infiniti® Fin system, along with its Contour Screening Louvers. The Levolum solar shading solution improves the energy efficiency of the development by preventing excessive solar heat gain in the summer, which significantly reduces the cooling load.

enq.149

Survey reveals poor acoustics affecting office productivity



Working in a shared or open-plan office is considered the norm, yet a survey of 2,000 workers commissioned by **Ecophon**, part of leading international materials company Saint-Gobain, has revealed that a lack of acoustic treatment in these spaces is having a negative impact on employee productivity. Almost 80 per cent of those surveyed work in open plan or shared offices. When asked what they thought about the current acoustic environment in their office, more than half of respondents (54 per cent) said working in an open-plan workspace sometimes makes it difficult for them to concentrate and do their job. Two thirds (61 per cent) of those surveyed are also bothered by the lack of privacy that open-plan offices provide, with a further 42 per cent of respondents claiming that they don't have access to private or quiet rooms at all. With more than half of respondents (52 per cent) spending more than 40 per cent of their time on concentrated tasks, 51 per cent also say that they get disturbed by other teams. Ecophon is calling for architects and designers to consider acoustic treatment and other factors such as temperature and air quality, alongside other challenges such as changing technology, environmental issues and facilitating flexible working practices as a holistic approach to modern office design.

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enq.150

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Emerging from The Shard's shadow

Europe's tallest building has company – a prestigious 19-storey office development called The Place. It may share the same architects and, therefore, 'the same DNA' as The Shard, but Jess Unwin reveals the many differences between the two structures



© Sellar Property Group

Just a few paces from Europe's tallest building, the headline-grabbing Shard, a prestigious office development is emerging with comparatively little fanfare – and yet the challenges involved in putting it up are just as great, and some would say greater, than erecting its high-profile neighbour.

London Bridge The Place is a 19-storey building with 40,000 sq m (428,000 sq ft) of office space that's an integral part of the Sellar Property Group's new £2 billion commercial district, known as the London Bridge Quarter.

It shares "the same DNA" as The Shard, which is not surprising as it has been designed by the same architects, Renzo Piano Building Workshop. The shell and core of the building will be complete at the end of May, and fitting out could begin

as early as June – Sellar Property Group says there is plenty of interest in the building as a corporate HQ for one or possibly two multinational tenants.

Making it attractive to those potential tenants by designing a structure that offers plenty of floor space was at the heart of the challenge in the design and building of The Place. Flan McNamara, Sellar project managing director, says: "The site is directly above London Bridge tube station with its control room, ticket office and two lines – the Northern and Jubilee. We're building in the middle of all that so our opportunity to get to ground and build a big building in the conventional way was quite limited.

"If you put in a big footplate building, generally you have

As an integral part of the London Bridge Quarter, The Place has been designed to complement its high-profile neighbour

'It was a much tougher building to get together and it took a lot more planning'

Matt Massey, senior project manager for Mace

columns around the perimeter to support the building. In this case there are very few pillars around the perimeter because there is nowhere to land the columns into ground without going through the London Underground assets below."

The answer, he explains, was to put in two heavy central cores and hang from them a much bigger building than would otherwise have been possible by using a system of cantilevered steel beams that spread out in all directions from the cores, allowing for much more floorspace.

Matt Massey, senior project manager for Mace, the main contractor on The Place, says: "I was construction manager on The Shard before coming to The Place. The Shard is a very tall building, with a lot of men and equipment to move up to high levels, which brings its own challenges, but it is a gravity building so all the columns come straight down to ground. It was much simpler to build – effectively you just build floor on floor on floor and work your way up.

"Because of the issues at The Place, where everything cantilevers out, it was a much tougher building to get together and it took a lot more planning and monitoring to make sure it was a success. From my perspective it was definitely a bigger challenge than The Shard."

So, The Shard and The Place are clearly very different – and not just because the former is 95 storeys and 309.6 metres high, while the latter is less than 80m high. And yet when you're on-site you see they're clearly 'sibling' structures.

Flan says: "The Place has been designed to complement The Shard, it's the same architect, the same DNA...There are subtle changes, for example, with the glazing on The Shard it's largely panel on top of panel, whereas on The Place we have a shiplap arrangement. The materials in The Place lobby

© Sellar Property Group



include the same marble The Shard has, but used in a different way. There's also more timber in the lift lobbies of The Place – our palette of materials has changed, but not massively.

"They are very much of the same family of buildings and very much Renzo Piano designs, so the buildings have features common to both, like the winter gardens (on floors 3-12 of The Place), where you can open the windows and breathe fresh air."

Matt Upton, associate director with project management company Turner and Townsend, reveals one striking element of The Place's design – the sweeping curve on the north-west side of the building – was actually a rethink after the compulsory purchase of land for a railway viaduct. "The footplate of the building had to be reconfigured, but the architect took the redesign with a curve as an opportunity."

Flan admits that for him the curve "is the most beautiful elevation on this project". He continues: "As you drive over London Bridge in the morning you see something that's truly exciting architecturally. The way that it reflects the light and the buildings of the city are amazing for me."

Glass is obviously a big feature of The Place. Flan explains the triple-glazed building uses a "very clear glass with a silver interliner and the impact of that is that you get more light deeper into the building".

And Matt Massey adds: "Glass will give you a completely different colour depending on the angle at which it is put up. On The Shard there is a constant 6 degree angle, but when you put up a vertical building like The Place you can use the same sort of glass, the same type of reflective coating and yet the glass will look completely different.

Continued overleaf...

The Place has spectacular views too and makes its own contribution to the transformation of the London Bridge area



© Sellar Property Group

‘Data for every component is built into the BIM system, which means it will eventually evolve into a facilities management model’



“So the way the architects addressed that was that while all the internal sheets of glass on The Place are vertical, on the outside every piece of glass is actually angled in by 1.5 degrees, which gives the same visual impact as The Shard.”

Producing glazing that matched that of The Shard was just one of many of the challenges thrown up by The Place. As was the case with its neighbour, there were important archaeological finds, dating back to the Roman occupation of London, during foundations and basement work. This could have delayed the project, but close collaboration with the Museum of London Archaeology avoided delays.

And throughout the building work on The Place there has been the constant challenge of not interfering with one of the busiest transport hubs in London. Flan reveals just one example of this: “We were set a tolerance by London Underground that they should see no movement on the steps of the Northern line escalators as they travel of more than 2mm. We had to do a ground movement analysis to make sure the building



wouldn't move while we were building the basement to The Place. I'm pleased to say we kept it well within that tolerance.”

Interactive 3D Building Information Modelling (BIM) was used extensively on The Place, and in a way that Flan thinks is “in advance of most people”. The immediate gain has been

A new public concourse will link The Place, The Shard and London Bridge rail station



© Mace

‘One of our greatest challenges was how to break down the mass of the building’

Jack Carter, architect, Renzo Piano Building Workshop

coordination between everyone working on The Place, but more significant it is the fact that data for every component is built into the BIM system, which means it will eventually evolve into a facilities management model, including planned preventative maintenance and even information about how much energy certain components of the building are using.

On the subject of sustainability, The Place boasts a thermally efficient envelope and carbon emissions 60 per cent less than typical prestige standard offices. A photovoltaic array is mounted on the roof with supplementary power and heat generation through combined heat and power plants. Flans says: “We’ve achieved BREEAM Excellent rating already. We’ve gone for low-energy plant where we can and we’ve made sure that all the M&E kit is state-of-the-art and low energy. We’re tracking all that and will monitor it over the full life of the building.”

However, some argue that what makes The Place sustainable is the simple fact people working there have direct access

to the Underground, bus and overground rail network, cutting journey times, reducing traffic densities and pollution. It’s reckoned 50 million people a year travel through London Bridge Quarter. With The Place some of these people can move straight from train to desk.

Continued overleaf...



© Sellar Property Group

The Place will boast an impressive landscaped roof terrace

BUILDING PROJECTS

Developer

Sellar Group

Design architect

Renzo Piano Building
Workshop

Executive architect

Adamson-Associates

Principal contractor

Mace

Project manager

Turner & Townsend

Quantity surveyor

Davis Langdon

Structural engineer

WSP Cantor Seinuk

Services engineer

WSP Buildings

Commercial agents

CBRE
Colliers International

Steelwork

subcontractor
Severfield-Reeve
Structures Ltd

Concrete

subcontractor
Byrne Brothers



Jack Carter was the architect at Renzo Piano Building Workshop in charge of The Place. He reflects: “One of our challenges was how to break down the mass of the building. While in the shadow of The Shard, this remains a huge building – 48m wide and 100m long! Our approach was to break the volume into smaller, more vertically proportioned elements which, when viewed from certain angles, appear separated from each other. Another help here was the fact the site is an island, surrounded by the railway and low-level buildings. It is almost impossible to read the building as a whole when close by. By raising the volume up 8m above ground level, emphasis is placed on the ground floor, which remains transparent and open.

“Probably our greatest challenge was managing our neighbours’ expectations for the redevelopment. Working closely with Transport for London (TfL) and Network Rail, we were able to agree a land swap to create the new 40m by 30m public space between the two buildings. Land owned by the developer was used to relocate the bus station to the north of the site. In return, TfL land containing the old bus station unlocked the creation of the new public space – vital breathing



space in a site visited by 300,000 people a day!”

Despite its overbearing neighbour, The Place is a building of note in its own right, including a landscaped roof terrace with spectacular views of London. It may not yet be getting much public acclaim, but it’s certainly recognised within the construction industry – picking up the Building Award in the 2013 ICE London Civil Engineering Awards.



FACTA publishes new specification

The Fabricated Access Covers Trade Association (FACTA) is pleased to announce publication of the new FACTA Specification. FACTA is the leading industry body at the forefront of the fabricated access cover industry. The purpose of the FACTA Specification is to address the shortcomings of BS EN 124:1994, which was published primarily for brittle cast iron materials and took little account of the elastic behaviour of steel and aluminium products. Additionally, BS EN 124 leaves a large gulf in load classes between 1.5 tonne (A15) and 12.5 tonne (B125) cover ratings, which the FACTA Specification sought to fill. Consequently, FACTA AA and FACTA AAA load classes were conceived to provide practical solutions for everyday applications. Importantly, the Specification also accounts for both pneumatic and solid wheeled slow moving vehicles.

01827 52337 www.facta.org.uk

enq.153



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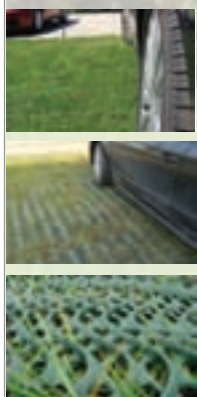


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enq.155



Call for Brick Awards 2013

Once again, the search is underway to find the best brickwork in action for the 2013 Brick Awards, organised by the **Brick Development Association**. The Awards are one of the top design and construction awards in the country and show just what brick – the UK's most popular cladding material – can achieve. Entrants are judged on a wide range of architectural design factors including demonstrating the building fabric's sustainability credentials and the aesthetic choice, blend and bond of brick. The Awards are open to anyone, whether they are architects/designers, building owners, developers, housebuilders, contractors or brick manufacturers. The only stipulation is that the project – unless it's featured in the Worldwide category – must feature clay bricks or pavers made by BDA members. The 2013 Brick Awards will be presented at the Marriott Grosvenor Square Hotel in London on 14 November.

020 7323 7030 www.brick.org.uk/2013-entry-form

enq.156

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T-T chosen for shopping centre in Prestatyn



T-T Pumps has been selected to supply three Package Pumping Stations to Marshall Construction for installation at Prestatyn's new retail park. Serving a large Marks & Spencer and Tesco superstore, the installation is now complete and commissioned and

the shopping centre is open for business with everything running smoothly. T-T was recommended for the project by a long standing customer Stockford Anderson. A spokesman from the company commented: "Due to the good service we receive at our sites, when my client asked who should install the pumping system it made sense to choose T-T."

01630 647200 www.ttpumps.com

enq.157

Increase in demand for Aluglaze reported



Panel Systems has reported an increase in demand for its aluminium composite panels from architects and specifiers choosing an infill panel solution to bring old buildings to life or create vibrant new buildings. Danny Phelan, sales manager at Panel Systems, explains: "We are seeing a rise in demand for Aluglaze because

of the unique combination of stunning aesthetics with reassuring long term low maintenance." Aesthetics are still the number one reason that architectural panels are chosen. On a recent project, the architects for The Link, a flagship community building for young people in Thamesmead, London (pictured), Aluglaze was specified due to the wide range of powder coated colours available.

enq.158



Marks & Spencer use Schlüter tile solutions

Marks & Spencer has ensured that its stores offer not just quality products but inviting, comfortable and safe surroundings, thanks to specifying **Schlüter-Systems** within their design guide. With over 21 million people visiting its stores each week, Marks & Spencer strives to provide shoppers with the very best retail experience and this includes everything right down to the walls and floors. Therefore, as part of a nationwide programme to update their outlets, it's no surprise that they named Schlüter-Systems products as part of their design brief to contractors. Ian Knifton, divisional manager at Schlüter-Systems, comments: "With thousands of shoppers regularly walking through each M&S store it is vital that the tile installations could stand up to the pairs of feet passing by. One of the many positives about our Schlüter®-DILEX and Schlüter®-SCHIENE profiles are their suitability for areas with a large footfall such as sporting arenas, international airports and retail outlets such as this, all of which experience high levels of mechanical stress."

01530 813396 www.schluter.co.uk

enq.160

Halo is proud to hit a new low!

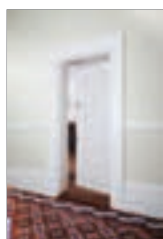


Halo, the pioneering new window system supplier, has unveiled the TwinSash, which can achieve a U-value of 0.38 W/m²K and reduce noise levels by around 50dB. This level of performance is reached by using triple-glazed, krypton-filled units and foam-filled sections. It can even achieve extremely low U-values using what is considered to be the industry's most cost-effective combination of components; using two 28mm double glazed IGUs (air filled, float glass and aluminium spacer bar) the TwinSash can still achieve a U-value of just 1.2. The TwinSash can offer a combination of open-in/open-out casements, along with Tilt 'n' Turn windows.

01282 716611 www.halo-uk.com

enq.161

Todd Doors period-style reproduction doors



A leading independent timber door retailer **Todd Doors Ltd** has launched a new range of exceptional period reproduction doors. The 'Knightsbridge' doors can be produced to any size, and customers can specify rail and panel sizes and moulding details to replicate existing doors. Eramo Developments recently fitted these doors throughout 63 apartments in their prestigious conversion of a Victorian hospital at Normansfield Court, Teddington.

They successfully achieved the required conservation approval. Also produced as FD30 ½ hour fire rated doors, the 'Knightsbridge' range is available to order on a short lead time of four to six weeks.

0800 987 8667 www.todd-doors.co.uk

enq.162

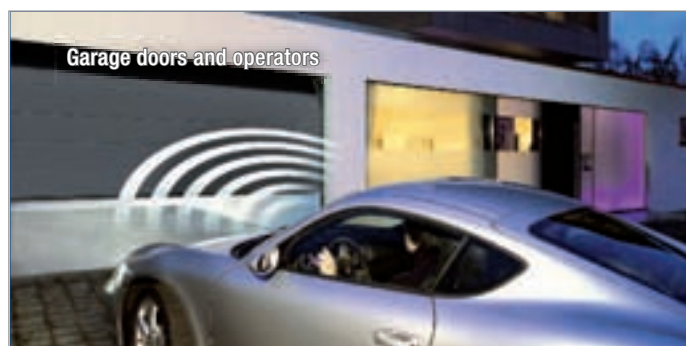


Deceuninck's high rise credentials

Deceuninck fabricator, Dempsey Dyer, has just completed a large refurbishment contract with Pennine Housing 2000. The contract involved replacing 867 windows in three high rise tower blocks in Mixenden, West Yorkshire. The project presented several difficulties, meaning it was only suitable for the most experienced of contractors. Perhaps the greatest of these difficulties was the sheer scale of the project: replacing 867 windows in three high rise buildings on budget and on schedule requires considerable skill and expertise. John Duckworth, Deceuninck's commercial manager said, "The Decoroc process creates windows that are a cost effective solution to alternative fenestration materials, without compromising on aesthetics, thermal efficiency or performance. We are delighted that Wates chose Decoroc." A project of this scale demands superior products and a superior installation approach if it is to be completed successfully and offer long term benefits. The combination of Deceuninck's products and Dempsey Dyer's expertise ensured both of these have been achieved.

01977 649641 www.dempseydyer.co.uk

enq.163



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Keep it safe with Securistyle



Walsall Manor Hospital was recently fined £80,000 after a patient suffered a fatal fall from a first floor window. A full investigation found the trust at fault for not having fitted restrictors to the window. More recently was the tragic case of four year old Caleb Wallace who fell from the third storey window of a block of flats in Glasgow in early March.

Securistyle prides itself on offering expertise and technical knowledge. In addition to friction hinges with built in restriction, the company offers a range of purpose designed individual restrictors. The Defender Cavity Fit Restrictor, for example, is ideal for domestic installations where there is a danger of falls. It is made from austenitic 304* stainless steel for enhanced corrosion resistance and tested to BS 6375-2:2009 – load bearing capacity of safety devices. It is compatible with all Securistyle domestic hinges and is available with a 10-year guarantee.

The Detachable Restrictor is ideally suited for more heavy duty applications such as schools or hospitals. This key release restrictor stay can withstand a force in excess of 1,000N when opened at the restricted position and is compatible with all Securistyle commercial hinges.

01242 221 200 www.securistyle.co.uk

enq.165

RENOLIT announces the launch of the next generation of exterior films



RENOLIT EXOFOL PX is a new and unique exterior film that incorporates improved performance in every aspect of the product construction, leading to significantly better weatherability and an increase in the overall life of the film. Initially available with twenty-six classic & premier effects RENOLIT EXOFOL PX provides a significant advantage over traditional films currently available to the market. The essential benefit is that customers can have greater confidence in the performance of the products laminated with RENOLIT EXOFOL PX. It has been in development for many years so customers can be assured that it has undergone the most vigorous testing regime possible and either meets or exceeds industry standards including RAL 716/1 part 7. Key to the improved performance is the re-engineered and patented product construction within four critical areas of its structure: • The base film uses new and improved raw materials in a revolutionary plasticiser free PVC formulation. • RENOLIT EXOFOL PX utilises an acrylic specifically designed for this product which contains more effective UV absorbers. • RENOLIT EXOFOL PX uses superior colour pigments in both the base film and the printing inks. • RENOLIT EXOFOL PX is manufactured with a primer on the reverse side.

01670 718122 www.renolit.com

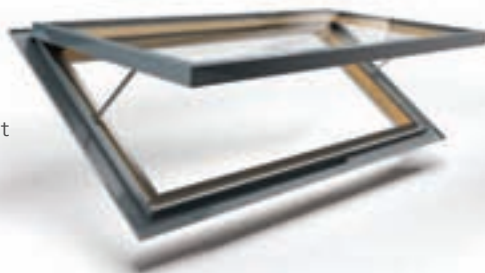
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enq.167

VIVIX® exterior façade at Morrisons Kiddicare



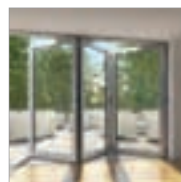
Astley, one of the UK's leading creative signage manufacturers, chose VIVIX® exterior façade panels by **Formica Group** for the building frontage of the Morrisons Kiddicare stores in Nottingham, Merry Hill, Thurrock, Aintree and Rotherham. Developed in consultation with leading architects, VIVIX® architectural

panels are available in plain colours with sophisticated neutrals and striking accents, nature-inspired abstract patterns and woodgrains. The VIVIX® range creates exclusive looks in a creative and cost efficient way, providing the necessary thermal insulation to bring energy efficiency up to 21st century standards.

0191 259 3512 www.formica.com

enq.168

Schueco door will meet new Part L standards



With the delayed publication of the new Part L of the Building Regulations now due in April, architects, specifiers and main contractors will be reassured to know that the Schueco ASS 70 FD – a tried-and-tested, thermally insulated folding/sliding door system from **Schueco UK Limited** – will meet the increased insulation standards expected. The system is ideal for

commercial and residential use and offers a variety of fold and slide opening combinations, thus giving complete flexibility. Leaf sizes up to a maximum width of 1,200 mm and a maximum height of 3,000 mm are possible. The leaves can be stacked so that they project inwards or outwards.

01908 282111 www.schueco.com

enq.169

Shackerley helps Hotel La Tour to establish new identity



Shackerley's ceramic granite façades have helped to create a unique and striking brand identity for Hotel La Tour Ltd, perfectly complementing the ultra modern design of the company's £24 million flagship hotel in Birmingham. PHP Architects of Northampton specified Sureclad ceramic granite ventilated cladding to provide a dramatic outer envelope for this landmark building, the first of five UK city centre 4-star hotels that Hotel La Tour is hoping to open. Over 4,300m² of prefabricated ceramic granite has been installed in conjunction with a Sureclad Access System, with gleaming white façades in natural travertine effect finish providing a striking counterpoint to the highly polished black ceramic granite elevations. Shackerley's ceramic granite was specified for its attractive premium quality appearance, strength and hardness, durability and low maintenance properties. It has the aesthetic appeal of naturally hewn stone but is an engineered material with none of the flaws and weaknesses of granite or marble. Fully vitrified and impermeable, it is unaffected by climatic extremes, impervious to airborne pollutants and algae growth and resistant to acids and alkalis. Even graffiti can be removed with ease. Because of its through-body colouring, patterning and graining, the appearance of the façade panels will not fade over time, even in the most intense UV light.

enq.170



Axis installs seven automatic doors at new Trioscape Garden Centre

Architectural Technologist Angela Wadley of local company Total Design Ltd wanted the new Trioscape Garden Centre, near Newent in Gloucestershire, to be as environmentally friendly as possible and it features many energy saving products. Angela chose **Axis Automatic Entrance Systems** of Northampton to supply and install all the aluminium glazing and the tilt and turn windows as well as a total of 7 Stanley Dura-Glide automatic doors and a number of manual doors too. Axis MD Rob Brunero said: "Stanley Dura-Glide door operators combine state-of-the-art microprocessor technology with advanced engineering to provide the safest, most dependable and highest performance door systems in the industry – perfect for high traffic retail locations. We were delighted to work with Angela and Trioscape and, like them, think the results are stunning."

0844 504 6545 www.axisautomatic.com

enq.171



Ascent™ an advance in wall envelope design

The Ascent™ product portfolio provides the means to create modern stylish façades with one common element, at their heart, a Eurobond non-combustible cored architectural panel system. This unique solution combines ease and speed of installation to create a weathertight building envelope early on in the build programme with unparalleled design flexibility. Rainspan™ sits within this portfolio and is the perfect structural support for Eurobond's wide range of partner façade systems. From metallic, to traditional brick or terracotta tile to engineered timber solutions, Rainspan™ combines aesthetics, functionality and performance to offer the complete façade solution. Installation of all Rainspan™ systems is fast and easy and the long span capability can reduce secondary steelwork requirements and build costs. Rainspan™ also delivers low environmental impact by virtue of a high recycled material content, full recyclability and promotes energy efficiency.

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Design sustainability into the building fabric

Ian Clarke, technical application manager at Tata Steel Colorcoat® discusses the important role that the building envelope can play in helping architects to meet sustainability targets

The building fabric is a valuable tool for architects in designing buildings that will withstand the internal and external conditions that they are subject to, as well as adding to their aesthetic appeal. However a recent survey carried out by Tata Steel found that many architects are undervaluing the envelope's potential to improve the overall environmental performance of the building.

Sustainability remains a key issue in the design and construction of buildings and both government and clients are looking to architects to play a leading role. The government is committed to ambitious carbon reduction targets, including an obligation for all UK commercial new builds to be zero carbon by 2019. As well as this, a number of changes to building regulations Part L, set for autumn this year, are likely to put even more focus on building sustainably.

And it is not just the government that is driving sustainability forwards. Research published in September 2012 by Cushman & Wakefield found that the number of investors and fund managers implementing minimum sustainability performance standards for their property portfolios has more than doubled from the previous year.

Of the 56 architects surveyed by Tata Steel, only 40 per cent of respondents believe that design teams are making the best of the building envelope for improving environmental performance. The building fabric presents a number of opportunities to enhance the sustainability credentials, from improving the energy efficiency to incorporating active renewable energy systems and responsible sourcing. About 94 per cent of survey respondents agreed that those who do not utilise the building envelope in this way are missing a trick.

So how can architects make sure they aren't missing out? To meet government targets and client requirements, architects must consider sustainability across the whole life cycle of the building and not just during the construction phase and consider the role of the building fabric at an early design phase in order to fully take advantage of the opportunities that it can offer.

A large majority of respondents to the Tata Steel survey are already making use of the building envelope to provide efficiencies through air tightness (95 per cent) and insulation (85 per cent), but only 30 per cent are using it to incorporate renewable energy generation technologies such as solar air heating systems and photovoltaics.

By incorporating renewable energy systems into the fabric of the building, the role of the building envelope can be



'By incorporating renewable energy systems into the fabric of the building, the role of the building envelope can be transformed from passive to active, efficient and affordable energy generation'

Ian Clarke



transformed from passive to active, efficient and affordable energy generation, reducing emissions as well as operating costs. There are a number of systems both on the market now and in development that aim to make renewable energy a fully incorporated part of the building envelope.

For example, through solar air heating systems, it is possible to capture heat from the sun and draw it into the building through a micro perforated pre-finished steel collector installed as an external skin on the exterior of the building. The pre heated air can then be distributed directly into the building as ventilation or ducted into the main heating system to reduce the energy load. Such systems can reduce a building's heating requirements by up to 50 per cent as well as providing fresh ventilation air for a healthy and comfortable internal environment.

Aside from heating, the lighting and cooling of a building rely largely on electricity. The inclusion of electricity generating renewable technology into a building design can have a significant impact on reducing the building's emission rates as well as ongoing operating costs and traditional energy consumption.

Photovoltaic systems, which convert solar radiation into electrical current, can be easily incorporated into the envelope material to generate supplementary energy to power the building. With system developments meaning that installation costs are falling, this is an increasingly viable option for generating renewable energy and helping design teams towards the goal of zero carbon buildings.

The building envelope represents a quick and effective way that architects can incorporate sustainability into their projects, as well as providing long term cost benefits. Those that do not take advantage of these benefits are truly missing a trick.

enq.174

Alu-Timber EFT curtain walling



After extensive research and consultation, the next innovation is now available from timber/aluminium façade supplier, **Alu-Timber**. Alu-Timber EFT is a 60mm curtain wall system, which offers two-sided structural glazing with vertical or horizontal capping, and four-sided structural glazing.

Design freedom and solutions to modern environmental issues are a complex requirement. Alu-Timber EFT provides thermally efficient larch timber with time tested aluminium for protection. To maximise spans and centres, a wide range of timber mullions and transoms are available. The inherent properties of timber provide two advantages: high strength as well as low U-values.

020 8685 9685 www.alutimber.co.uk

enq.175

Benefits of composite cladding over timber



One of the main points to note for the eco-minded is that a quality timber composite product like Dura Cladding, from **Dura Composites**, can be just as green as wood – if not more. A report from CERAM UK confirmed that the product meets the highest sustainability specifications. It

is made of 87 per cent recycled materials, and recently Dura became the first timber composite supplier to become FSC® 100 per cent certified. Traditional wood planks require regular painting or staining to preserve and protect them, however, UV inhibitors can be added to a quality timber composite at the point of manufacture to protect against the elements. Therefore, the only maintenance required would be cleaning, just like any other outdoor product.

enq.176

Latham's cladding range is second to none



Timber and panel products specialist, **James Latham** is now offering a wide range of timber cladding directly available from stock. Latham's entire timber cladding range is either FSC or PEFC certified and has been carefully selected to ensure that it meets the highest standards of quality. Western Red Cedar is a popular choice among architects and builders due to its superior dimensional stability. As well as shrinking and swelling much less than other timber, it stays flat and straight and resists checking, making it the ideal material for both internal and external cladding projects. Plus, it has a rich colour, meaning that projects using Cedar, if properly maintained, will look fantastic year after year. Latham's timber manager, Danny Jones commented, "Aside from its aesthetic appeal, this remarkable wood has outstanding physical characteristics. Western Red Cedar contains natural preservative oils making it highly resistant to decay. It's also lightweight and easy to cut and handle, reducing installation time." Danny added, "As well as Western Red Cedar, we also offer Siberian, Larch, Thermo-wood and Accoya directly from stock. In addition, we offer bespoke machining on request as well as treatments such as Tanalith and Aquavac plus a full range of fire retardant treatments. We also offer a staining and lacquering service for all depots."

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Fortex cladding used for energy efficient home



Freefoam Building Products is delighted to report that Fortex Cladding is offering considerable benefits to those improving the energy efficiency of their home. Experienced property developer Vic Drake recently used the Fortex Weatherboard in pale gold to create a stunning thermally efficient home in Sevenoaks, Kent:

"We like [...] the long term durability of the product, its compatibility with insulation products, it's easy, fast and light to fix to properties and has the added advantage of no ongoing maintenance. Additionally [...] it's both aesthetically pleasing and in keeping with other local traditional properties."

01604 591110 www.freefoam.com

enq.181

Stainless steel tower façades at Addenbrookes



Aperam UGITOP® stainless steel shingles have been specified by RMJM Architects to clad four towers at the Medical Research Council's Laboratory of Molecular Biology at Addenbrooke's Hospital, Cambridge. Covering 27,000 sq m, the towers house all heavy plant servicing the building and are linked to the main laboratory building rather

than attached to it in order to remove weight and sources of vibration. At 0.7mm thickness, UGITOP® was specified for its durable matt surface finish, high corrosion resistance, low coefficient of expansion and flatness.

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www.arp-ltd.com, www.mustang-gutters.com

enq.187

Durable solution at secondary school



A school in the West Midlands now exceeds building regulations for thermal performance thanks to the installation of a new Stratex warm roof from **Kemper System**. Water ingress in some areas of the roofs led to a decision to refurbish and upgrade them, comprising a combined area of around

900m². Roofing contractor, Cooper Roofing, was brought in to carry out the work and specified Kempertherm insulation board from Kemper System along with the roofing specialist's Kemperol V210 cold liquid-applied waterproofing membrane. Thanks to the 20-year warranty offered by Kemper System, the School can also be confident that the new roofing membrane will provide a long service life.

019 254 45532 www.kempersystem.co.uk

enq.188

New brochure makes a splash



Yeoman Rainguard, a UK market leader in rainwater systems, has launched a new 60-page brochure packed full of information, including details on its aluminium, GRP, cast iron, and copper, zinc and stainless steel rainwater systems, stunning product images, case studies on new build and renovation projects and technical fixing details. The brochure also provides customers with the opportunity to take a closer look at Yeoman Rainguard's exciting new range of products, accessories and colours. Also

included are details on an impressive range of turrets and clocktowers, along with complementary Yeoman Rainguard products such as Anticlimb and cornice and fascias – adding the finishing touches to any building.

enq.189

adf
architects datafile



news blog

The ADF news blog is accessible from your Mac or PC, laptop, mobile or tablet at any time of day. Its interactive nature allows readers to comment and engage in discussions and social network sharing. The blog links to relevant articles and comment pieces from the national press, so there is no need to go hunting the internet; it's already been gathered and is regularly updated. Following the ADF news blog is now even easier when you subscribe to our daily digest email, a summary of the latest news stories straight to your inbox.

www.adf-news.blogspot.co.uk

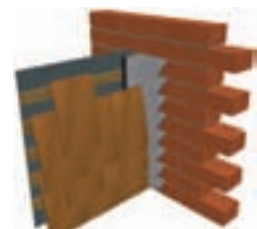
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SE Controls' smoke ventilation provides safe environment at flagship research laboratory

The Medical Research Council's new £200 million Laboratory of Molecular Biology (LMB) is using an advanced smoke ventilation solution from smoke and natural ventilation systems specialist, SE Controls, to provide smoke free escape routes for scientists, staff and visitors at the recently completed facility in Cambridge.

Designed by RMJM architects and constructed by BAM construction the LMB provides 27,000 sq m of usable space and is located adjacent to Addenbrookes Hospital as part of the expanding Cambridge Biomedical Campus, a renowned global centre for excellence in biomedical research.

Within its construction, the LMB uses a number of energy saving technologies and innovative solutions to provide heating, ventilation and solar shading as well as cooling through a deep bore closed loop geothermal system to meet the laboratory's 1600kW peak cooling demand.

Within the extensive smoke ventilation system, SE Controls supplied 197 chain actuators with a 603mm stroke length to operate smoke vents located throughout the building together with controls for eight staircase smoke hatches. The system included five SE Controls' 60 Amp power supply unit (PSU) panels as well as eight OS2 Type 21 controllers and manual control points (MCP's). As it was essential that the system complied with latest legislation, all actuators are CE marked and were tested to the stringent EN12101-2 standard.

SE Controls not only supplied, installed and commissioned the smoke control system, but also the building's automatic venetian blind solar shading, which are part of the LMB's energy efficient operation strategy and are operated by solar radiation sensors located on the roof.

SE Controls' project manager David Sawyer said: "The LMB not only houses some of the world's most advanced



biomedical research facilities, but it also contains some cutting edge technologies as part of its energy efficient design, and safety systems including the smoke ventilation and solar shading solutions with which we were delighted to be involved."

SE Controls specialises in the design, project management and installation of advanced smoke ventilation and natural ventilation solutions.

01543 443060
info@secontrols.com
www.secontrols.com

enq.191

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Dramatically reduce noise transfer via through-wall ventilators with **Rytons New Super Acoustic LookRyt® AirCores®**. Combining the revolutionary design of Rytons LookRyt® AirCore® with the latest in acoustic foam technology, this new range of retro-fitted core ventilators provide exceptional air flows with the best sound proofing possible. As pictured, the unique internal LookRyt® panel may be wallpapered or painted any colour for a discreet appearance. It also disperses evenly into the room reducing draughts.

To find out more see our Acoustic Product Guide or watch installation videos at:
www.vents.co.uk
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01536 511874

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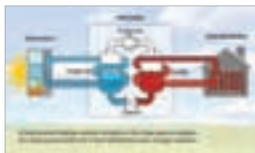
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The Renewable Design Company



The Renewable Design Company is a new name but with years of experience in the renewable energy industry. Launched in 2012 with the key objective of ensuring that the 'design' element of renewable installations is at the forefront and with the aim to demystify the

different technologies and their combinations. Design is crucial to getting the most out of any renewable installation. Too often short cuts by builders, plumbers and heating engineers at the design phase lead to underperforming systems and underwhelmed clients. RDCo navigate customers through the alternatives in plain English plus provide a free quotation and estimate of savings and paybacks.

01242 698410 www.therenewabledesigncompany.com

enq.193

Unique Aeroflow electric radiator



Electrorad* is the sole UK supplier of the unique Aeroflow electric radiator. Internally the radiator has multiple 100 per cent energy efficient electric elements embedded in fireclay heat plates. The fireclay acts as a heat transfer medium to ensure an even temperature across the whole of the radiator surface. Each side of

the heated core are convection flutes designed to draw the colder air from the floor level and supply the warmed air into the room. Radiant and convection heat are produced to give the ideal mix and ensure the highest levels of comfort. Each radiator has a built-in electronic room thermostat and programming system.

0844 479 0055 www.electrorad.co.uk

enq.195

Redring introduces Powerstream Eco



Redring has strengthened its instantaneous water heating range with the addition of the Powerstream Eco. Suitable for domestic and light commercial settings, the new Powerstream Eco is an instantaneous water heater that delivers hot water on demand at point of use – eliminating the need for stored hot water. The Powerstream Eco

embraces the compact design of existing Powerstream products, but users can now benefit from external power selection and an Eco function. When operating the Powerstream on the Eco setting, the kW power used to run the unit is reduced, which in turn reduces electrical wastage and running costs.

0844 372 7750 www.redring.co.uk

enq.194

Contemporary natural ventilation design



Mistrale, from Gilberts, is a complete natural ventilation air distribution solution comprising of louvres, volume control dampers, internal grilles and rooftop turret louvers with installation options encompassing both windows, wall, floors and ceilings. Designed by air distribution experts for dependable per-

formance the latest innovation is new Mistrale 75. Benefiting from the latest in design technology and materials Mistrale 75 is an ultra low leakage high insulated damper solution. This high design standard and flexibility makes Mistrale the ideal partner for your next natural ventilation project.

01253 766911 www.gilbertsblackpool.com

enq.196



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enq.201

Much more than hot air

Heat recovery ventilation offers dramatic fuel cost savings and health benefits, as Clarissa Youden, associate director of Total Home Environment, explores

Imagine the appeal of a new build home or social housing project, which does not rely on fossil fuels. This is no longer simply the domain of the bespoke eco home, but a reality that has been made possible by advances in heat recovery ventilation (HRV) and the development of heat pump ventilation (HPV). These systems work by recovering 'waste' heat from internal air and reusing it. At their best, and when combined with effective insulation, these systems can recover 100 per cent of indoor heat, allowing users to obtain 4kW of heat energy from 1kW of power.

It was an HPV system, which enabled the first social housing flats in the UK to be built to Passivhaus standards.

"The objective here was to do away with the need for a conventional fossil fuel-based heating system", said Gales and Snowden Architects, who were commissioned for the project by Exeter Council.

"This was achieved using a heat recovery ventilation appliance, supplemented by solar power. The new tenants now benefit from much lower than average heating bills."

HRV is now the accepted form of ventilation required to meet building regulations and to help achieve in excess of Level 3 for the Code for Sustainable Homes.

Managing director of Total Home Environment, Michael Hunt, says: "If carbon neutral targets and building regulations are to be met by home builders and developers, an effective and efficient heat recovery ventilation (HRV) system is now an essential component as new buildings become increasingly insulated and airtight."

'HRV is now the accepted form of ventilation required to meet building regulations and to help achieve in excess of Level 3 for the Code for Sustainable Homes'

Clarissa Youden

For the end user, HRV and HPV have significant attractions – not only in cost savings, but in terms of comfort and, importantly, health benefits. There's no need to open windows, so there is less heat loss, greater security, less polluted air available with no flying pests or allergens. There is no need to open windows since the internal air is completely replaced, on average, every two hours. Condensation, mould growth and odours are eliminated as moisture is extracted. Potentially noisy trickle vents are also avoided and HPV, which operates 24/7, is quiet to use.



Exhaust air heat pump technology based at 300m³/hr

Air quality issues

Asthma and allergy sufferers also benefit thanks to the greatly improved air quality. The best systems will have filters, which can trap pollen and allergens down to 0.01 microns.

With air quality a very pressing concern, HRV looks even more attractive. A recent report from the World Health Organisation warned of the potential dangers from chemicals and airborne dust from everyday products in homes and workplaces. A cocktail of chemicals is emitted from chipboard and other building materials and soft furnishings such as furniture, carpets, hard floors, curtains, paint and cleaning agents and is thought to be responsible for a wide range of illnesses. Phthalates, used as a plastic softening agent and present in everything from PVC flooring to children's toys, were singled out as posing a particular risk. HRV significantly reduces the impact of airborne pollutants.

The system can be used in new build or retrofitted homes, but to optimise efficiency the building must be properly insulated and sealed. There are other considerations too, particularly for specifiers:

- Ductwork can be quite large in diameter so in a retrofit the challenge is to find the space to route the duct to each room.
- Many companies specify flexible ducting for cost saving purposes but, where this is used, beware of ducting being squashed or damaged, as this will greatly reduce the efficiency of the system.
- Ducting should be insulated correctly or heat will be lost.
- Where heat pump ventilation is specified, a heat loss report should be carried out in the first instance in order to avoid over-reliance on the micro heat pump (some houses may need towel radiators and a wood burning stove to create a comfortable home environment, for instance.)
- In a new build, the specifier needs to ensure that there are no gaps whatsoever in the insulation.

End users need to adopt certain practises to maximise the benefits – for example, to keep windows closed and to leave water for an hour after a bath in order that the system can extract the heat from it for re-use.

enq.202

How do HRV and HPV work?

In a typical system, a ventilation appliance is usually located in the loft or utility area of a new or existing property, connected via ducting to ceiling terminals in the rooms. A fan system extracts the stale, warm (and sometimes damp) internal air to the ventilation appliance to be exhausted outdoors. Meanwhile, another fan draws fresh filtered air from outside and supplies it to indoor areas via ducting. Using a heat exchanger within the appliance, HRV extracts the heat from the outgoing air as it passes over metal plates and uses this to warm incoming cold air. In warmer months, the heat recovery process can be bypassed to ensure that cooler, fresh air enters instead.

Cracking down on bacteria



In a pioneering Hospital-based study, leading LST radiator specialist, **Contour Casings**, discovered that there could potentially be 682,000 bacteria colonies and over 10,450 different bacteria types present inside a single, traditional radiator guard, which has no internal access for cleaning or antimicrobial protection. An average Hospital ward containing 40 traditional, fixed radiator guards could therefore contain in 5 Million potentially harmful bacteria colonies. When compared with a modern LST radiator guard, in this case the Trionic DeepClean guard from Contour Casings and BioCote® antimicrobial technology, the DeepClean guard contained 96 per cent fewer bacterial colonies overall than the traditional guard.

01952 290 498 www.contourcasings.co.uk

enq.203

A bespoke solution that fits!



An independent, charitable housing association planned to demolish six old and tired bungalows and replace them with 12 new two- and three-bedroom apartment homes. The Daikin Altherma low temperature system is ideally suited to both under floor heating and solar thermal. The lower operating temperature in underfloor heating applications results in higher operating efficiencies. Following discussions with the plumbing contractors (a **Space Air Solutions** customer),

it was agreed that the Daikin LT 8kW integrated system would be applied with Space Air Solution's bespoke adaptations to enable the addition of solar water heating to the 250L storage cylinder and the internal components to fit the space.

01483 252 252 www.spaceairsolutions.co.uk

enq.205



Design and innovation from Aarrow

Arada is proud to announce the launch of its new and improved Aarrow i Series range of stoves. These new models offer sleek and contemporary designs combined with the latest Aarrow technology.

The i Series models were first seen in the heating industry over a year ago but there have since been aesthetic improvements and extensions to the range with the introduction of the largest inset convector stove ever manufactured by Arada.

The improvements include, a new polished silver handle, which is easier to operate than on previous models, a new, straight, fuel retainer and the optional extra of an internal flue damper to allow the flue draw to be reduced if necessary.

With five models available ranging from only 400mm wide to an impressive 610mm wide, with outputs from as low as 4kW up to 8kW, there is a perfect partner for any contemporary home.

01297 35700 www.arada.uk.com

enq.207

Second CDL Handbook is published



Constructive Details Limited (CDL), a joint venture by the **BBA** and Robust Details Ltd (RDL), has launched its second handbook of masonry detail junctions developed for the Aircrete Products Association whose members

include H+H UK, Hanson, Quinn Lite and Thomas Armstrong. This second handbook details junctions for a full fill external wall cavity (11 details) and corresponds to details CD001 to CD0016 from the original handbook. Both of the handbooks are available electronically via a dedicated resources page on the CDL website and can be downloaded free: <http://constructivedetails.co.uk/resources/>

01923 665300 www.bbacerts.co.uk

enq.204

Helix makes UK debut for Wilo



Another **Wilo** contribution to building energy efficiency, Wilo Helix Excel is a new series of high-pressure multistage centrifugal pumps. Its fields of application include water supply, pressure boosting, industrial circulation systems, process water, cooling water circuits, washing systems and irrigation systems.

The Wilo Helix Excel more than meets the legal requirements that will not come into effect until 2017 and already beats the IE4 limit values, which are only available as a draft. It offers secure planning for the years ahead – reducing costs and emissions. It also offers up to 70 per cent less maintenance expense with easy and convenient access to the gasket without uninstalling the motor.

01283 523000 www.wilo.co.uk

enq.206



Firing up for zero carbon new builds

As anyone involved in home building is well aware, the government has set targets for new-build housing to be zero carbon from 2016. It's leading many architects and specifiers to consider how incorporating wood burning stoves into designs can help them achieve that objective. **BMF** offers a free service to help professionals find the right stove or fireplace for their project. Ben Freeman, co-owner at BMF, explains: "A wood burning stove can heat anything from one room to a whole house. At BMF we have a wealth of knowledge and can specify and supply fires and stoves from a wide selection of the world's top manufacturers. This includes products suitable for the most eco-friendly of developments, ensuring you choose a product that suits not only the style of your plans, but also provides the heat output the property requires." BMF can also help design and supply the appropriate flue system, taking into consideration all the necessary regulations and health and safety requirements.

0113 2660096 www.bmfonline.co.uk

enq.208

Reduce noise, reduce stress

Your home is your haven, a place to relax and enjoy life with family and friends. However many homes across the UK have an unwelcome visitor... NOISE!

Road traffic noise, rail noise, noisy neighbours, built-up areas and noise from commercial operations can all penetrate our haven and disturb our lives – this can lead to serious health issues. Numerous studies show that living in a noisy house can be extremely stressful. It can have a damaging effect on quality of life and have an impact on the educational achievements of children.

To dramatically reduce noise transfer via through-wall ventilators Rytons has developed a fantastic new range of Super Acoustic LookRyt® AirCores®, which provide exceptional air flows and the best sound proofing possible. Our new Super Acoustic range combines the revolutionary design of Rytons LookRyt® AirCore® with advancements in acoustic foam technology for a range of retrofitted core ventilators that are the latest in style and performance.



Keep ventilation to habitable rooms comfortable with Rytons New Super Acoustic Background Ventilators. With amazing soundproofing up to 50dB (Dn,e,w), these controllable background room ventilators allow fresh air to dilute odours and prevent condensation while minimising the transfer of outside noise.

Permanent ventilation need not mean permanent noise with Rytons New Super Acoustic Boiler, Stove and Fire Ventilators. Quiet and efficient, these ventilators have impressive equivalent areas, reduce noise transfer by up to 45dB (Dn,e,w) and are also HETAS approved for use with solid fuel appliances.

Rytons New Super Acoustic LookRyt® AirCores® feature Rytons unique LookRyt® panels. Angled openings around the rear of the face plate reduce draughts by allowing multi-directional air flow to disperse evenly into the room. The face plate, as pictured, is suitable for wallpapering or painting any colour allowing the panel to co-ordinate with the room décor for a discreet appearance.

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Eurostove are exclusive UK importers and distributors of WESTFIRE, SAEY and ORANIER woodburners and multifuel stoves. As well as a selection of other quality brands of wood boilers and cookers, Eurostove also manufacture MENDIP stoves.

The range offers a wide choice of distinctive styles from traditional to contemporary to warm the heart of any home. To find out more including your nearest dealer, visit our website or call to speak to an advisor.

01934 750500 | www.eurostove.co.uk

enq.211

Filtering out the facts



Many heating systems do not receive the correct chemical water treatment – the ‘clean, protect and maintain’ regime from which all heating systems should benefit; as a result there will nearly always be a certain amount of debris within a heating system. The recently launched **Sentinel Eliminator** is the first system filter to feature totally new technology for many years. It utilises ground breaking Quadra-Cyclone™ Technology to rapidly remove all circulating debris from a central heating system. Sentinel Eliminator comprises an arrangement of four cyclones, which force clean water out of the top of the filter and four strategically positioned magnets which accelerate capture and retention of the magnetic debris.

01928 588330 www.sentinel-solutions.net

enq.212

Pentair gives clients extended peace of mind



In line with its commitment to unparalleled customer service, **Pentair Thermal Management** now offers its customers a 10-year extended warranty on its commercial heat tracing products, including: The WinterGard

(FS) pipe frost protection Range; self-regulating and mineral insulated ramp heating solutions; gutter ice and snow melting systems; hot water temperature maintenance solutions; and its popular FrostGuard heating kits. Systems are simply registered at the online registration site at the time of installation and, in the rare event of a problem, ensure corrective action can be delivered to the customer quickly, efficiently and with minimum disruption.

enq.214



Introducing ‘installer friendly’ energisSava 380

When it comes to heat recovery, good installation is the key to getting it right, even the most energy efficient appliance will fail to perform if it has been poorly fitted. **EnviroVent** has developed the energisSava 380, a whole house heat recovery system, designed as an easy one man installation. This lightweight and compact system has been developed in a unique modular format, which allows it to fit through a standard loft hatch. In addition, this practical unit also incorporates simple push-button commissioning – making life easier for the installer. The energisSava 380 can also be rotated to enable both right and left configurations depending on the type of installation required. Furthermore, the system also performs to the highest efficiency on SAP Appendix Q, achieving a low Specific Fan Power (SFP) of 0.40 W/l/s and thermal efficiency of 93 per cent. No user intervention is required, the intelligent humidity tracking controls constantly monitor the levels of humidity in the home, enabling the energisSava 380 to provide a healthy indoor environment all year round.

01423 810180 www.envirovent.com

enq.216

TPZ-Net Zigbee wireless range



The TPZ-Net range of wireless environmental sensors, repeaters and co-ordinators is an exciting new product range from **Titan Products**. Incorporating Zigbee wireless technology the range creates extremely stable, self-healing

mesh networking capabilities. The TPZ-Net range is designed to wirelessly monitor; temperature, CO₂, humidity, light and occupancy levels and transfer this information back to the Titan Products co-ordinator where the information can be transferred on to a BACnet network or to other Titan Products controllers or IO Devices. The TPZ-Net range is supplied with Titan Products bespoke PC interface to allow for simple setup and commissioning.

enq.213

New products from Vortice at Ecobuild



Vortice Ltd brought some fantastic new products to show visitors to Ecobuild. On show for the domestic ventilation market was the HR200 Evo, an evolution of the highly specified HR200 compact heat recovery unit. New filter access makes it even easier to access and service this high efficiency HRU. Vortice also launched the Invisible, a new heat recovery system designed to sit ‘invisibly’ above ceilings, perfect for applications where living space is at a premium. The Vortice air handling unit team brought some profile samples – these huge units are

designed for industrial projects. In the hygiene range, the Vort Super Dry is a new hand dryer ideal for high usage in shopping centres and motorway service stations.

01283 492949 www.vortice.ltd.uk

enq.215

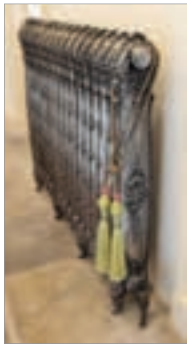


Specflue sustains Mother Earth

The **Specflue** group was educating and implementing environmental issues long before it was ‘good to be green’ which is reflected in having a specialist environmental manager – Graham Hawkins – who attributes the success of the company to numerous diverse themes and products underlined by the diverse ethos of Specflue now being suppliers and designers of prefabricated flue and chimney systems, renewable energy sources, hot water systems and training providers for the sector at large. “We are always looking to learn and participate in positive themes for the benefit of customers and the planet alike and continually implementing best practice and technology” says Graham. In technical product terms The Specflue range starts with the Danish range of TermaTech wood burning stoves, which manage to be attractive and strong at the same time while giving some four times the efficiency of open fires. All of the stoves are easy to use and come in attractive colours.

enq.217

Cast iron radiators from Carron



With one of the UK's largest collections of reproduction cast iron radiators, together with a bespoke build service and a wide range of finishes available, you are sure to find something to suit your project with Carron. From the ever popular Victorian range, which features a large collection of model options, to the more exclusive Antionette cast iron radiator (pictured), they cater for any décor. Using traditional foundry methods, Carron radiators are authentic reproductions taken from original mouldings. Both practical and stylish, they are designed for today's living yet manage to retain the charm of a time past.

enq.218

Façade-friendly natural and smoke ventilation



Powrmatic's Ultrasky is a high quality glazed ventilator ideal for natural and smoke ventilation as well as being an excellent source of natural daylight. It has been specifically designed for seamless integration into inclined and vertical glazing systems. Consequently, many architects use Ultrasky as a cost-efficient alternative to roof lights or standard window systems. Fully tested to BS EN12101-2, the triple-sealed Ultrasky combines low air permeability with a thermally

broken extrusion to prevent heat losses from the building and to insulate against cold outdoor air temperatures. The Ultrasky can be designed to operate in response to a range of parameters, including wind, rain, temperature, and air quality.

01460 53535 www.powrmatic.co.uk

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enq.221



Events venue open to all...

The NEC, the UK's largest exhibition and events venue is now truly open to all, through investment in a new toilet! The National Exhibition Centre in Birmingham has unveiled its new Changing Places accessible toilet, in the main Hall 20 Atrium – the area where the country's biggest disability event, Naidex, is held, and which is accessible to all shows and events held in Halls 6 through to 20. Supplied and installed by leading disabled toileting solutions provider Clos-o-Mat, the toilet is the result of an accessibility audit, which highlighted the need for the resource. Larger than a standard accessible (disabled) toilet, a Changing Places facility has more space, to enable a wheelchair user and their carer to manoeuvre with ease, plus equipment including a height adjustable adult sized changing bench and hoist. Clos-o-Mat has a proven track record on the supply and installation of fully accessible toilets.

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

enq.222

Marmox Multiboard warms Rutland Cottage



During the purchase of a delightful cottage in a rural location in Rutland the new owner noticed that the property seemed extremely cold. He decided to line the floor and walls with some form of insulation that was effective yet quick and simple to install. After considering the options available he decided that Marmox Multiboard

fitted the bill on both counts. Multiboard is manufactured from extruded polystyrene with both faces of the board covered with close woven fibreglass mesh embedded in a cement polymer mortar. This Marmox product is also simple to fix to solid or stud walls being easy to handle due to its light weight.

01634 835290 www.marmox.co.uk

enq.223

Armourcoat's KonCrete® finishes at DX



Armourcoat will be launching new colours and finishes at DX, part of the May Design Series (stand R18, ExCeL, London, 19-21 May). DX will be co-located with kbb LDN, INTERIORS LDN and The ARC Show, presenting a new commercial contract and retail event for London's architectural,

interior design and high-end retail communities. Armourcoat will be presenting new ranges of colours and finishes, including 'Armourcoat KonCrete®' – an urban range of polished plaster effects designed for contemporary projects. The finish presents a wealth of design options to achieve a distinctive modern look, including distressed effects or recessed 'shutter' markings.

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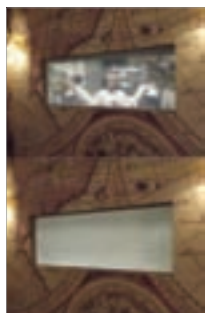
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GALVANIZERS ASSOCIATION

Photo courtesy of BSH Group - www.zink-offerant.com

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ESG Polyvision™ rebrands as ESG Switchable™



Essex Safety Glass (ESG) has quite literally switched the branding of its ESG Polyvision™ glass range. Now aptly known as ESG Switchable™, the brand instantly reflects the versatility of the high quality LCD privacy glass. When discretion is required, ESG Switchable™ provides control over privacy or the public gaze. With its impressive technical qualities and design-led features such as iPad remote controls or integration with business management systems, ESG Switchable™ is quickly becoming the switchable glass of choice for architects, partitioners and interior specialists.

01376 520061 www.esgswitchableglass.co.uk

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New website set to open doors for Vicaima



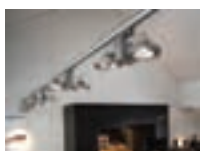
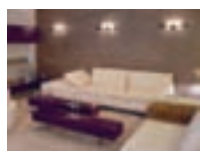
Vicaima has launched a new website. Designed with the needs of its customers in mind, the new website contains comprehensive details of Vicaima's full range of internal and entrance door systems, door kits, sets, wardrobes and complementary furniture. Intuitive menus take the user through detailed information on every aspect of Vicaima's products and make the site very easy to navigate. The new website not only

contains details of Vicaima's products but also includes full technical information, downloadable brochures and a portfolio of projects on which the company's doors have been used. To visit the new website go to www.vicaima.com/en-gb.

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Tarkett ReUse programme used at NHS developments

The Tarkett flooring waste for two hospital developments has been saved from landfill, thanks to the company's ReUse programme. The scheme, designed to ensure excess waste is diverted from landfill, has recently been used at Peterborough Hospital and South Glasgow Hospital; two significant NHS development programmes. With increasing numbers of public sector building projects requiring contractors to show a level of environmental awareness, Tarkett aims to make it as easy as possible for firms to recycle its product. AC Flooring supplied and installed the flooring for both the Peterborough Hospital, South Glasgow Hospital and Mater Hospital in Dublin. Tim Hill, sales director for AC Flooring, said: "Our team has worked with Tarkett many times in the past so we know that the service will be excellent and of course the products themselves are easy to work with. Tarkett's ReUse programme makes recycling easy."

enq.231



RIBA Approved Floors Screeds CPD

Flowcrete has updated a popular RIBA Approved CPD, which is designed to help specifiers get the level best from flooring screeds. Entitled *Floor Screeds – How To Avoid Failure* in essence the CPD seminar covers the different types of floor screeds and their applications, identifies areas of failure, offers advice on problem avoidance and offers recommendations towards the correct specification of sand and cement based screeds, allowing clients to:

- Identify the correct specification of floor screeds
- Identify the types of floor screeds and application areas
- Understand how to avoid screed failure.

Aimed predominantly at architects specifying screed systems in commercial environments, the CPD also caters for construction managers and other property professionals.

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

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

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

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Considerations with carpet

Abby Chandler, marketing manager at Heckmondwike FB, looks at what specifiers need to consider when choosing carpet for commercial environments

Carpet is still the dominant floor covering for commercial environments, but there are a number of considerations for specifiers to ensure the product chosen is fit for purpose. First of all, it is essential to consider who will be using the flooring area and how heavy the foot traffic will be. If it is a medium to heavy-duty environment, then there are certain types of carpet that lend themselves well to this purpose. Fibre bonded carpet, for example, is able to withstand heavy foot traffic, as it is a robust, durable loop pile, which will not ravel or fray.

On many projects, it is important to consider the terrain outside the building. Will users be walking directly from a gravel-based car park or a muddy field onto the floor area? Also, consider the type of footwear associated with users of the building – if it's specialist footwear, this could inflict more damage to the carpet. For example, football boots or golf spiked shoes. Stiletto heels can inflict major damage on certain types of flooring, so again a robust carpet surface needs to be considered.

Entrance matting is widely specified in areas where shoe borne dirt could cause a maintenance issue and damage to a carpet. This is widely specified, particularly for reception areas in schools, sports clubs and offices, helping to release the dirt and grit from footfall that can cause so much damage to carpet. As a result of this, choosing the right entrance area carpet can help to maintain the long term appearance and is definitely an investment worth factoring into the scheme at the outset. Many building owners take advantage of the option to choose to fit logos and bespoke designs within entrance matting, creating a professional and customised feel to a building.



Another consideration is whether to opt for broadloom or tile. Broadloom is ideally suited to commercial environments with large floor expanses, offering that seamless feel underfoot. Carpet tiles offer greater flexibility in that they can conveniently be replaced if they become damaged. They can also be easier to install in certain environments.

Carpets offer many design possibilities and specifiers often look to choose a colour that reflects a building's interior or a business' corporate colours or logo. A stunning effect can be created by use of a base colour, such as grey, but then using



'Carpets offer many design possibilities and specifiers often look to choose a colour that reflects a building's interior or a business' corporate colours or logo'

Abby Chandler

accents of colour to create visual interest and appeal. When the design involves specific on-site cutting with intricate designs and shapes, then fibre bonded is again a popular choice, as it is a carpet that will not ravel or fray, making an effect easy to create.

Another benefit with carpet is that it can be used effectively for demarcation purposes, especially in open plan areas in offices, care/dementia homes and schools. Zoning involves using different colours to identify areas for specific purposes and here carpet plays an important role in creating aesthetically pleasing, spacious internal environments. This zonal approach has been used widely in education buildings to engage young people and create a stimulating learning environment.

Many specifiers choose carpet because of its acoustic and thermal performance properties. Carpet provides a pleasant experience underfoot and acts as an insulator to prevent warmth escaping from a building. It also offers excellent acoustic properties, which is particularly important in locations such as schools, so as to provide sound deadening properties and reduce noise transmission between classrooms.

Fibre bonded carpet, like other types, needs regular maintenance to retain its aesthetics and ensure longevity. Maintenance of carpets ranges from preventative measures, such as keeping entrances clean and using barrier and entrance matting; to routine maintenance with regular vacuuming, particularly in high traffic areas. Finally, deep carpet cleaning should be carried out by professionals to remove embedded dirt.

A building is often judged on first impressions by the quality or condition of the carpet. As the most highly used and abused surface, it is essential that a carpet is correctly specified in order to meet the demands from the users of the building.

Careful consideration of the properties of different carpet types is definitely worthwhile and in many cases, the first place to start is with ordering samples to enable you to gain a better feel for the carpet, its robustness, colour choices and performance benefits."

enq.235

Restoring part of Jersey's architectural history



The spectacular 16 New Street in St Helier, Jersey, was constructed in the 1730s but fell into disrepair in the late twentieth century. The house was neglected until it was acquired by the National Trust of Jersey in 2003. Ray Gilligan of Athletic Floors was tasked with the responsibility of refinishing the surface of the floors, subsequent to their repair. Ray comments: "Granwax Nature was chosen to provide protection to the floors because of its hard wearing properties, its beautiful finish and strong eco-friendly credentials. The water-based finish is produced using a unique blend of linseed oil based resins, made from 85 per cent renewable resources and offered protection as well as warmth, texture and colour enhancement..."

enq.236

Polyflor tucks in



Polyflor, a leading manufacturer of commercial and residential vinyl flooring, has recently had its SimpLay Loose Lay product installed at the famous Slattery's patissier and chocolatier in Whitefield, Manchester. Slattery's owner, John Slattery says: "We think the new flooring looks fantastic and is a superb way to welcome our guests. We

chose to install Polyflor's SimpLay product because of its hard wearing durability and ease of cleaning. As a busy restaurant, we need to feel safe in the knowledge that our flooring can stand up to a lot of traffic."

0161 767 1111 www.polyflor.com

enq.238



New Bona finish chosen to restore hall floor

Floor Restorers of Cheltenham, have used a waterborne lacquer from Bona to finish the newly renovated hardwood floor in the Princess Hall at Cheltenham Ladies' College. The floor was installed in 1952 and is constructed from Gurjun planks, a warm, pinkish brown species that is particularly silent to the tread. It was the first time this floor had been sanded back for 16 years. Consequently there was considerable surface damage to deal with including scratches and scrapes, a build up of maintenance products and some water damage. Bona recommended that Bona Traffic HD would provide the most durable finish for a surface that was subject to constant traffic. Traffic HD is a new waterborne formulation from Bona that is 40 per cent more hard wearing than classic Bona Traffic and with a VOC content that is 40 per cent lower. A key feature is its fast development time, which means a floor can be put back in to use just 24 hours.

01908 525 150 www.bona.com

enq.240

Yet more quality streets



Jaymart's Street-Beater ribbed, rubber/aluminium entrance matting systems have recently been installed at the prestigious Park Lane building in London's upmarket Mayfair. Also in Mayfair, Rolex's top-notch Caulder Moore redesigned boutique at 28 Old Bond Street opted for the same type of entrance matting system. Street-

Beater can be used as either an indoor or an outdoor entrance matting and is available in either closed construction or in heelsafe open construction. An advantage to this system is the availability of replacement fine ribbed rubber insert strips, should they be required. Jaymart were proud to be suppliers of their aluminium based entrance matting systems to the London 2012 Olympics.

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adf

website

The Architects Datafile (ADF) website is an online provider of past and present products and news items for the architect or specifier. Adfonline.eu is a one-stop source for all the latest press releases providing any visitor with access to information about products and services that they may require. From the website, you can find links to digital issues that have live links to advertisers' sites, as well as a news blog that offers daily email alerts to keep you as informed as possible..

www.adfonline.eu



Marmoleum helps to create a healthy environment at Salford Royal

Marmoleum's inherent bacteriostatic properties, superior environmental credentials, ease of cleaning and contemporary appearance made it the ideal flooring for two state-of-the-art facilities built as part of the Salford Royal NHS Foundation Trust's £200 million redevelopment scheme. Main contractor Balfour Beatty specified over 20,000 sq m of Forbo Flooring Systems' Marmoleum Real for the Hope Building – housing a new A&E department, critical care unit and 242 beds – selecting Dove Grey and contrasting blocks of Fresco Blue and Hyacinth to mark out receptions, seating areas and bed bays. Marmoleum's fiery Bleeckerstreet was installed in the Mayo Building, a training centre equipped with mock-up wards, simulated operating theatre and restaurant. Anne Symons, Balfour Beatty design manager, said: "Resistant to MRSA and other bacteria – as well as being sustainable, durable, easy to clean and available in an impressive variety of colours – Forbo's Marmoleum was the obvious choice."

enq.241

The future for platform lifts:

Axess4All's larger capacity A8000

Boasting such impressive platform dimensions coupled with an unrivalled load capacity of 1,000kg, the Axess4All A8000 vertical platform lift was the perfect solution for the striking historic setting of Cardiff University's Chemistry School.

Travelling over two floors, and fitting neatly between the sweeping wooden staircase and architectural pillars, the installation of the A8000 has provided the university with the perfect access solution. The standard white powder coated frame and choice of a fully glazed lift shaft, to give full visibility in and out of the lift, ensured that the aesthetics of the stunning surroundings weren't compromised by the installation.

The A8000 is renowned for its large capacity, not only being able to carry a load weighing 1,000kg but also with the dimensions of the platform that were chosen, measuring 1,405mm in width and 1,980mm in length. This is not the maximum length available, which actually reaches to an impressive 2,480mm in length, however the flexibility of the size options made the A8000 the right choice for fitting into the existing architecture.

The one touch call button and audible voice announcer on each level, makes using the lift an easy and pleasant experience.



Axess4All general manager Jason King commented: "We were thrilled to provide the A8000 platform lift for the historic setting of Cardiff University. It is always a consideration when working within existing premises, especially one of such architectural beauty, that the installation of the lift would be too much of a stark contrast with the setting. However, the choice of glazed panels and the fit of such a large capacity lift in a relatively small space meant that the A8000 comfortably fits into the existing environment and provides real benefits to the university for accessibility to the upper level laboratories and lecture theatres."

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sales@axess4all.com
www.axess4all.com

Teardrop range makes a splash



Solus Ceramics introduces the sophisticated Teardrop range, which is a unique and elegant series of wall tiles inspired by oriental flowing shapes and curved lines. The scale-like tiles are available in six lavish colours including a deep turquoise and a regal red, and can be selected in both a matt and glossy finish. The tiles, which measure 115x195mm create dramatic patterns when laid together resembling the

textures of exquisitely woven fabric. Most recently the tiles have been featured in the brand new Hard Rock Café in Barcelona and were even backlit to exciting effect. For more information contact Solus Ceramics.

0121 753 0777 www.solusceramics.com

enq.243

Yeoman Shield back again by popular demand



Yeoman Shield has recently been installed as part of a £2 million project at the Northern General, Sheffield Teaching Hospitals Trust. Yeoman Shield supplied and installed (Bordeaux colour) door frame and architrave protection,

glazing bead, protection strip and standard corner angles. Yeoman Shield's 'imagery' was also used for signage and numbering. Pete Trenchard, an Estates project manager for the Sheffield Teaching Hospitals NHS Foundation, said: "Once again I have been very satisfied with the versatility of Yeoman Shield's products, interface, design and ultimate installation of the product."

enq.244

Stannah's range of cabin platform lifts has just got bigger



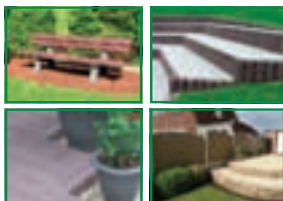
Providing solutions for access in the built environment is Stannah's business. Their first cabin platform lift was introduced in 2009 and they have since installed more than 100 cabin platform lifts. Stannah have broadened their range to manufacture a cabin platform lift that uses a hydraulic drive as an ideal, cost-effective choice for low-rise situations. The new Stannah Midilift SLplus is a top-of-the-range version of the original part-enclosed Midilift SL, hydraulically driven but with the addition of a full height cabin. None of the platform space has been lost as light rays and safety beams around the entrance protect the traveller without restricting the floor area. It's easy to install in its own structure, needs a minimal pit of 70mm for level entry or can be supplied with a ramp and requires headroom of just 2,500mm. The lift's drive system is neatly tucked away in a small cabinet that needs very little space. Of course, the new platform lift complies with all the latest manufacturing and safety standards and is available directly from Stannah's manufacturing base in the UK. The best bit? The new Stannah Midilift SLplus looks and operates just like a conventional passenger lift giving your building fabulous looks without breaking the budget. Welcome to Stannah's extended family of platform lifts.

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Permitted paving

Taking a responsible approach to drainage is essential to reduce flooding and pollution from paving and hard landscaping. Government has recognised this issue with important changes to permitted development rules and other recent legislation requiring sustainable drainage systems (SuDS), as Chris Hodson, RIBA consultant to the trade body Interpave, explains

Following a year of unprecedented rainfall in 2012, action is urgently needed to avoid yet more flooding around the UK. And it is well recognised – including by government – that a sustainable approach to surface water drainage using SuDS must play a key role. When it takes effect, Schedule 3 of the Flood and Water Management Act 2010 will effectively make SuDS mandatory. It will apply to any construction work that affects the ability of land to absorb rain-water, including access roads, parking areas, hard-standings and other paving around commercial and industrial buildings. Projects of all types will have to comply, including any alterations that have drainage implications.

Slowing down and cleaning up

The SuDS philosophy is based on a management train made up of a series of techniques such as concrete block permeable paving and 'soft' landscape techniques including swales and ponds. Where ground conditions preclude complete infiltration, concrete block permeable paving and other SuDS techniques play an essential role in slowing down and cleaning up runoff before discharge into conventional drain systems or water-courses, so improving water quality and reducing downstream flood risks.

So, what changes should we expect? Draft National Standards for SuDS have already been published and consulted upon, and government plans to engage with stakeholders in developing additional guidance for interpretation shortly. According to the draft National Standards, to comply, a drainage system will need to be designed so that surface water runoff is managed at its source and on the surface. Concrete block permeable paving is ideally suited to this and is set to play an important role in the future. Importantly, the existing right to

connect surface water drainage systems to public sewers (under Section 106 of the 1991 Water Industry Act) will be limited to those approved under the Act: in other words, only SuDS.

The Act's wide-ranging measures cannot, however, be strictly applied until publication and implementation of the long-awaited National Standards – now estimated to be in April 2014. So, what action has been taken in the meantime?

Embracing SuDS

Many planning authorities are already embracing SuDS and have incorporated requirements for them in local policies being implemented now. This stance is supported by The National Planning Policy Framework (NPPF), which came into force in March 2012, and previous national policies, such as PPS 25 (now withdrawn). SuDS are also an important part of the Code for Sustainable Homes and BREEAM 2011.

In addition, recent planning Permitted Development rule changes aim to apply SuDS techniques to new or replacement paving around existing homes and various non-domestic buildings. Before the changes, paving anywhere in a garden related to a house or bungalow, or within various non-residential properties (industrial, warehouse, office and shop premises), with any materials was considered to be 'permitted development' – effectively an automatic planning permission without needing a planning application. But not any more.

Guidance

For domestic properties, the changes take away permitted development rights from new or replacement drives or other paving between a house and the street, unless it is permeable paving or drains water onto a 'rain garden' area within the property. In England, these measures



took effect in October 2008 and apply to paving over 5m² and in the front garden only. In Scotland, similar measures apply to work initiated after 6 February 2012 and apply to paving of any size between the house and any street – therefore not just front gardens. Both English and Scottish governments refer to a guide on permeable paving from the Department of Communities and Local Government and this, in turn, refers to the Interpave website and guidance documents for more information.

For industrial, warehouse, office and shop premises, similar changes take away permitted development rights from new or replacement paving on a property, unless it is permeable paving or drains water onto a permeable area within the curtilage of the property. Otherwise planning permission will be needed. In England, these measures took effect in April 2010 and in Scotland, similar measures are being considered now.

Permeable paving at the BRE Innovation Park

'Many planning authorities are already embracing SuDS and have incorporated requirements for them in local policies'

Chris Hodson

enq.250

Tensar named a top British innovation



Tensar International, a global leader in soil-reinforcement and ground stabilisation technology, has seen its groundbreaking Tensar/Netlon technology named as a Great British Innovation in a poll voted for by the British Public. The Great British Innovation Vote saw over 50,000 votes cast to select the British innovations which had made the largest impact on the country in the last 100 years. The competition was launched to coincide with National Science & Engineering Week. Tensar's

technology was recognised by a number of voters, finishing within the top 20 in 18th position. The past innovation recognised by the public as being the most significant was Alan Turing's 'Universal Machine'.

enq.251

Jeckells shade sails at Beecroft Primary, Leeds



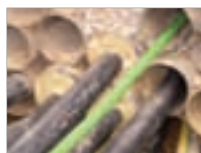
Jeckells the Sailmakers have installed three twisted tensile canopies at Beecroft Primary School in Leeds, giving a covered passageway between buildings. The membranes were manufactured from PVC coated polyester material with a flame retardant specification and a lacquered coating to

prevent deterioration from airborne contaminants. In order to facilitate the twist within the fabrication, a limited amount of geometry was needed in order to present a flat, uniform surface finish. Apart from UV block, all Jeckells' sails offer complete protection in most weather conditions and the materials are available in either plain or fire retardant specifications depending on their end use.

01603 782223 www.jeckells.co.uk

enq.253

Densoseal for York Heslington East Campus



Vital Energi of Blackburn is currently carrying out Biomass, Combined Heat and Power (CHP) and multi-utility infrastructure works at The University of York's new Heslington East Campus. In order to obtain effective and long term sealing from the entry of gas and water in all electrical service cable ducts,

Vital Energi has chosen Winn & Coales Densoseal 16A sealant. Additionally, it was considered to be the most suitable sealant for use in renewable energy applications. Densoseal 16A is a non-setting, self-supporting mastic, which may be applied to wet surfaces and will seal ducts and conduits against ingress of water and gas. It is suitable for CHP and biogas projects.

020 8670 7511 www.denso.net

enq.252

Tensar strengthens technical sales team



Tensar International, a global leader in soil-reinforcement and ground stabilisation technology, has strengthened its technical sales team with the appointment of area civil engineer, Ben Stringfellow. Ben is responsible for managing all aspects of technical sales throughout central England and mid Wales, supporting the company's ambitious growth

plans. Having previously worked in contracts engineer, site engineer and project manager roles at Deritend Industries, Pick Everard and MJ Gleeson, Ben's experiences will be of great assistance to distributors and customers when establishing their exact requirements, as well as providing technical advice and detailed design and supply solutions for projects.

enq.254

ZFP Fire Panel makes an impression



A pioneering specialist education facility in Manchester is being protected by one of C-TEC's powerful ZFP 4-loop touchscreen controlled analogue fire alarm control panels. Created with the input of some of the world's leading fire safety experts and installation companies, C-TEC's ZFP boasts a unique touch

screen interface, which proved invaluable in its installation at the Together Trust's Bridge College, an independent college for students aged 16 to 25 years with disabilities, complex needs and autism. Said Andy Green, C-TEC's marketing manager: "The visual aspect of the ZFP is very impressive as all devices installed on a system are displayed clearly on the panel's touchscreen interface."

enq.256

L101 beacon gains EN54 part 23 approval



European Safety Systems' E2S has gained EN54 Part 23 certification from VdS for its L101 beacon, giving full compliance to the new standard that became effective from 1 March 2013 in most of Europe, and which will be in place from 1 July in the UK. Certification has been achieved for wall mount, ceiling mount and open class with either red or clear lenses, allowing it to be used in all locations with fire system installations. In

addition to the stand-alone beacon, certification has been achieved for all E2S combination sounder/L101 beacon units, creating the most comprehensive range of products approved to the new standard available from any manufacturer. The EN54-23 approved units operate from 24VDC for use in fire systems and from 48VDC for other applications where approval may be required.

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