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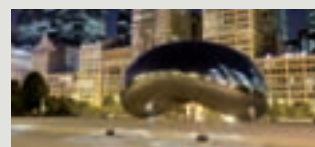
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Cover image: Green Valley Shanghai, © schmidt hammer lassen architects. See page 5 for details

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BUILDING FOR EDUCATION

Thirteen more schools to be modernised through the Leicester BSF Programme

The Leicester Miller Education Company (LMEC) has signed contracts on a further 13 schools in the Leicester BSF (Building Schools for the Future) Programme, totalling £139 million in construction and ICT value.

LMEC, a partnership between **Miller Construction**, Leicester City Council, Semporian and BSFi, will manage the development of the projects, which contain a mix of new build & refurbished secondary and special educational needs (SEN) schools.

The city schools that will benefit from this investment are New College, Babington Community College, Ellesmere Community College, Sir Jonathan North Community College, The Lancaster School, Keyham Lodge School, Millgate School, Moat Community College, St Paul's School, English Martyrs School, Hamilton Community College, Nether Hall School and West Gate School.

Miller Construction has been appointed as the main contractor for the design, build and refurbishment of all 13 schools, while Capita Managed IT Solutions will provide ICT services.



London Festival of Architecture returns as annual month-long event

This month, the **London Festival of Architecture** becomes an annual, month-long and citywide exploration of London's built environment; investigating the importance of architecture and design in London's success and celebrating the city's role as a global hub of architectural experimentation, thinking, learning and practice.

Many festivals celebrate history, cultural activities and human achievements. The London Festival

of Architecture, established in 2004, does all this but also actively promotes positive change and improvement in the city's public realm.

Taking place 1 - 30 June 2013, LFA is a 'time for architecture' in the city and will incorporate a programme by invited Festival Partners from leading architectural and cultural institutions in order to harness and to link the enormous energy inherent in the London scene.

A rich and varied programme organised by independent actors, such as individual practices and artists will be promoted as the LFA Fringe.

To see a few of our festival highlight choices, look at our Events listings on page 10.

For a full program of events and for more information, please visit www.londonfestivalofarchitecture.org



Oculus and London Pleasure Gardens
© Agnese Sanveto

RIBA STIRLING PRIZE 2013

Shortlist and winner dates

The shortlist for the RIBA Stirling Prize will be announced Thursday 18 July. Six buildings will be shortlisted. The winner announced Thursday 26 September at an evening event at Central St Martins in London. This year the prestigious

RIBA Stirling Prize for the best building comes of age and celebrates its 18th year.

The judges will look for original, imaginative and well executed designs, which excellently meet the needs of their users.

The shortlisted and winning buildings reveal the pinnacle of current architectural talent – buildings that on all fronts and in every detail inspire those who use and meet them.

Watch this space!

URBAN DEVELOPMENT

Green Valley project breaks ground in Shanghai

On 30 May 2013, schmidt hammer lassen architects, East China Architecture and Design Institute, and Shanghai Expo Construction Development Company celebrated the ground breaking and start of construction of the new Green Valley project on the site of the former 2010 Shanghai Expo.

Schmidt hammer lassen architects won the international competition in 2012 to design the 50,000-sq m project located immediately next to the iconic Chinese pavilion. The Green Valley development will become a new central urban development in Shanghai, integrating new sustainable solutions in both the urban design and the individual buildings on the site.

The Shanghai World Expo in 2010 placed emphasis on the future sustainable development of the formal industrial dockyard area of the city. The Expo event itself transformed this area into a new destination for the city. What remains after the Expo event is over and most of the pavilions are torn down is a strong and well-developed infrastructure with green parks, promenades and cultural attractions. The Green Valley project will mark the heart of the new

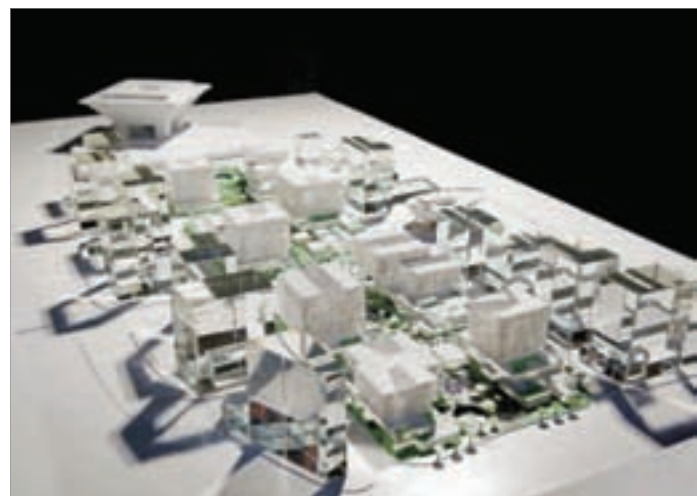
permanent development of the site.

"The new Green Valley development, with offices, shops and restaurants, will become a new destination not only for the main users of the area but for people from Shanghai in general," explained Kristian Lars Ahlmark, partner and project responsible at schmidt hammer lassen architects. "It will be a green, sustainable landmark for the city and for the entire region. It is a great honour to be part of this development on such a prominent site."

A central open space composed of greenery, water and a soft landscape runs through the middle of the site. It functions as the spine of the Green Valley. This open space splits the site equally into two, with two major buildings located on each side.

The buildings have a large, connected structure, tightly choreographed to set a new scene for urban life. It will act as a guiding element in the development of the entire area.

The buildings are designed to offer modern office facilities with a high standard of finish, flexibility, consideration of environmental issues, and low operating costs. The design expresses openness



and accessibility, with a strong identity. The green hanging gardens inside the open atriums will be visible from the surrounding areas, and the people working in the buildings will be offered a great view to the greenery and city beyond.

"The project is designed so that, despite the monumental scale of the site, it relates to the human scale in the public spaces, giving a diverse, vibrant and inclusive community," said Chris Hardie, associate partner and head of schmidt hammer lassen architects' Shanghai office.

The Green Valley is just one of four major projects currently being designed by schmidt hammer lassen architects in the centre of Shanghai. All the projects relate to the redevelopment of the former industrial areas along the riverfront, and build on the studio's celebrated track record in regenerating a number of prominent waterfront sites in major cities throughout Scandinavia. In Shanghai the studio designing the new Xuhui Binjiang Performance Arts Centre is working on a redevelopment of a former coal storage building, which will become a new art gallery and museum for an international art dealer, and has recently been appointed to design a pavilion for the West Bund International Biennale of Art and Architecture, alongside architects Atelier Deshaus, Atelier BowWow and Pritzker prize winner Wang Shu.

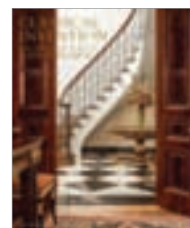
The Green Valley development is expected to be completed in 2015.

news bytes

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

Planning minister Nick Boles challenges councils to find land for local people to build their 'Grand Design'...
Ref: 13465

ISG secures £16.5 million Regent Circus Scheme...
Ref: 55198



New book
Classical Invention: The Architecture of John B. Murray.
By John B. Murray.
Monacelli Press.
Publication 24 September...



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Do forward plans show signs of growth?

With a batch of surveys and reports in May suggesting further declines in current construction activity, does activity in the UK's Planning system suggest the future might look a little brighter?

Government planning reforms have taken centre stage with attention focused on the size of house extensions. Together with some loosening of the rules around city centre residential conversion projects, the reforms are aiming to kick-start more home renovations across England and Wales. The government expect a 15 per cent increase in home extension schemes – either new or accelerated. This future optimism is, to some extent, matched by construction firms operating at the other end of industry.

Taylor Wimpey, Barratt, Persimmon and Bellway have recently reported much healthier profits. They broadly see recent government initiatives (including the Help to Buy scheme) as supportive of the housebuilding and construction sector – without being necessarily game-changing. As ever, what remains crucial to construction investment is that word 'confidence'.

What is in the planning pipeline that might shed further light on industry confidence? There are a few signs. The Home Building Federation recently reported housing unit planning approvals are up 60 per cent in one year. Construction projects are being approved at a higher rate than ever – 87 per cent for all proposals – while nearly three quarters of applications are processed within eight weeks – again the highest ever. Across the all construction sectors throughout the UK there is no shortage of new plans but the picture remains mixed.

Residential

Over 8,200 detailed plans for new housing units were submitted for planning approval in the first three months of 2013 for nearly 54,000 housing units. London topped the regional league table for new housing units with plans for nearly 8,000 new homes at the detailed planning stage.

The consensus from the major house builders is that the government's new Help to Buy scheme will incentivise both housing supply and demand – although not as strongly as the government might suggest. The headline reform – a mortgage guarantee scheme supporting £130 billion of high loan-to-value mortgages – will not be implemented until next year. If, as forecast, this prompts a positive effect on housing supply (rather than simply on house prices) then those who will benefit most are the smaller developers – from whom over 90 per cent of plans for new construction projects originate.

Commercial

Away from the larger infrastructure projects, there are only pockets of cheer in new plans submitted within the commercial sectors (industrial, office, retail and leisure). Planning Pipe tracked over 3,000 new applications for commercial development during the first quarter of 2013 but only a third of these



comprised schemes over an estimated build value of £100k.

Amongst the largest schemes were proposals for an office as part of the Crossrail projects and plans for the Motorsport Circuit of Wales in Ebbw Vale – a major motor sports and commercial, retail and hotel development on a 335-hectare site in South Wales.

In the hospitality sector, 5,000 new hotel rooms were submitted for planning approval during the first three months of the year. While this may seem encouraging, it is worth noting that this new room total is 20 per cent down on the final quarter of last year. At the same time over 40 hotels were closed or earmarked for redevelopment.

Education and Health

Over 350 plans were submitted for significant new building work in schools throughout the UK in the first quarter of the year. The replacement of Labour's Building Schools for the Future scheme with its Coalition successor, the Priority School Building Programme will see 146 schools (out of over 250) now facing a much more uncertain funding future. However, more recent announcements brought some good news with the acceleration of plans for 27 brand new schools.

A mixed picture is mirrored in the smaller construction market of healthcare. The year to April saw 150 plans for new primary care units and significant extensions to health centres or hospital units – an 8 per cent drop on the previous quarter.

Planning activity is currently providing no clearer messages than those coming from the various trade bodies and professional forecasters. Planning activity is one component that feeds into company confidence – the elusive factor that can rise or fall with a firm's current perception of their performance and competitiveness.

However, overall planning activity is not depressed and there still remains significant numbers of new opportunities that will represent future work. It will, as ever, be up to the best and most efficient contractors and suppliers to be effective and innovative in what and how they target their upcoming sales pipeline.

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

enq. 601

Commercial Plans: Q1 2013



news bytes

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

RIBA Competitions is pleased to announce the launch of an invited design competition and tender submission on behalf of Kingston University. Expressions of Interest are sought from multi-disciplinary, architect-led teams based within the EU...
Ref: 94875

Boost for local business as Willmott Dixon secures phase two of Birmingham City University's new campus...
Ref: 81497

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- > **ARCHITECT'S EYE PHOTOGRAPHY EXHIBITION** SHOWCASES THE WINNERS AND FINALISTS FROM THE 2013 COMPETITION
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Founder Exhibitors



AWARD

Architecture student's essay claims international Berkeley prize



Sophia Bannert, a **University of Lincoln** student, was named as a winner in the Berkeley Undergraduate Prize for Design Excellence after submitting her essay, which was selected by judges out of 152 student entries from 26 different countries.

The international competition was established in 1998 by the Department of Architecture at the University of California, Berkeley College of Environmental Design, to promote the investigation of architecture as a social art.

Each year the Essay Competition focuses on a topic important to the understanding of the interaction between people and the built world. This year, undergraduate students around the world wrote on 'The Architect and the Accessible City', with Sophia's winning essay entitled 'A Day in the Life of a Wheelchair User: Navigating Lincoln'.

Her innovative study explores the challenges faced by wheelchair users navigating around historical cities such as Lincoln.

For more information and to read Sophia's essay on accessible architecture in Lincoln, visit <http://berkeleyprize.org/competition/essay/2013/winning-essays/bannert-essay>



Mary Rose Museum opens

The design of the new £27 million Mary Rose Museum - by Wilkinson Eyre Architects (architect and design team leader) and Pringle Brandon Perkins+Will (architect for the interior) - is a story of collaboration, with the project team combining delicate conservation, contemporary architecture and specialist technical expertise. The result is a truly unique design that reveals the secrets of the famous Tudor

ship, marking 30 years since the hull of the Mary Rose was raised from the Solent where she lay undiscovered for 437 years.

Like crafting a jewellery box to house a precious gem, the design team has together created a building and interior that protects and showcases the Mary Rose. Designed from the inside-out, the Museum building takes many of its cues from the historic ship, allowing its hull, artefacts and exhibitions to take centre stage and create a visitor experience befitting this remarkable piece of history.

For more on the architecture and interior, please visit our news blog at adf-news.blogspot.co.uk and enter the reference number. Ref: 96839



COMPETITION SHORTLIST

Shortlist announced for the Design Challenge for a mobile recording pod for BBC Radio 4's The Listening Project

The RIBA has announced the shortlist for the RIBA Competitions' challenge to design a mobile recording 'pod' for BBC Radio 4's *The Listening Project*.

Over 80 designs were received from 13 countries all over the world. The judging panel, which included Fi Glover and Keith Williams acting as the RIBA adviser, met to select the shortlist:

- Jak Studio with Seymour Powell, Light IQ and Delicious Digital, London
- Patalab Architecture, London
- Henry Williams with Max Fordham Engineers, London

The selected design team will start working with the BBC immediately to have the finished pod ready for use around the UK by Autumn 2013.

news bytes

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

New book

Wood Architecture Now! Vol. 2.
By Philip Jodidio.
TASCHEN...

Iconic Riyadh Metro station in Saudi Arabia designs revealed...
Ref: 35104



Pollard Thomas Edwards architects has been chosen to design a new mixed tenure housing development at Lymington Fields in the Chadwell Heath area of Barking and Dagenham...
Ref: 56849

events

AWARDS

Energy Efficiency & Renewables Awards
12 September, Coventry
<http://energyefficiencyexhibitions.co.uk/awards/>

British Homes Awards 2013
18 October, London
www.britishhomesawards.co.uk

CONFERENCES & SEMINARS

London Global Green Leader conference
19 June, London
<http://www.sustainworldwide.com/london-global-green-leader-conference-2013.html>

Healthcare Schools & Secure Environments
3 - 4 July, Harrogate
www.ascentevents.co.uk/hse-events.php

Feeling Good - The Science and Economics of Wellbeing in Interiors
5 July, London
www.buildingcentre.co.uk/events

Post Brutalism
19 September, London
www.buildingcentre.co.uk/events

DEGREE SHOWS

In the coming weeks, degree shows nationwide will be showcasing the latest architecture student offerings. To find out the dates, download this RIBA architecture schools list and visit the school websites:
<http://www.architecture.com/Files/RIBAProfessionalServices/Education/Validation/2010/UKSchoolsList.pdf>

EXHIBITIONS

Project Space: Ruins in Reverse
Until 24 June, London
www.tate.org.uk

Ryder Architecture Celebrating 60 years 1953-2013
Until 27 June, London
www.newlondonarchitecture.org/exhibitions.php

Welcome to the 'Social' (LFA)
Until 28 June, London
www.architecture.com/WhatsOn

Designs of the Year 2013
Until 7 July, London
<http://designmuseum.org/exhibitions/>

Chromazone: Colour in Contemporary Architecture (LFA)
Until 21 July, London
www.vam.ac.uk

Bristol: Ambitious City
Until 28 July, Bristol
www.architecturecentre.co.uk/exhibitions

Sir Hugh Casson PRA: Making Friends (LFA)
31 May - 25 August, London
www.royalacademy.org.uk/events

Nicholas Hawksmoor: Methodical Imaginings (LFA)
Until 1 September, London
www.somersetshouse.org.uk/visual-arts

Charles Correa - India's Greatest Architect (LFA)
Until 4 September, London
www.architecture.com/OutOfIndia

FESTIVALS

Festival of the North East
June, North East England
www.festivalne.com

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

London Festival of Architecture (LFA)
Until 30 June, London
www.londonfestivalofarchitecture.org

Love Architecture Festival
21 - 30 June, National
www.lovearchitecture.org

City of London Festival
23 June - 26 July, London
www.colf.org

London Design Festival
14 - 22 September, London
www.londondesignfestival.com

World Architecture Festival
2 - 4 October, Singapore
www.worldarchitecturefestival.com

TALKS, LECTURES & DEBATES

Free breakfast talk: Blackfriars Road
21 June, London
www.newlondonarchitecture.org/events

TOURS

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

London Heritage Markets Walk (LFA Fringe)
Until 26 July, London
<http://sandrashevey.tripod.com>

Open House London
21 - 22 September, London
www.londonopenhouse.org

TRADE SHOWS

The Energy Event
10 - 11 September, Birmingham
www.theenergyevent.com
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

Retrofit Roadshows
4 July, North West
9 July, Birmingham and West Midlands
5 September, North East
17 September, Wales
29 November, London & South East
www.retrofit-roadshow.co.uk

WORKSHOPS

Drawing Gymnasium - Summer 2013
25 June, 2, 16 & 23 July, London
www.buildingcentre.co.uk/events

news bytes

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









For the duration of the London Festival of Architecture, PAPERWORK bookshop will offer a 25% discount on all Artifice books on architecture and Black Dog Publishing titles...
Ref: 48273

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AWARD

JMF wins BCO Design Award for Innovation

The Pod, a substantial office fit-out within an existing shell-and-core development, and entrance façade redesign in Nottingham, was awarded the British Council for Offices (BCO) Design Award for Innovation 2013. JMF acted as architect and lead consultant. The concept was to expose the existing concrete structure and proposed services to give an industrial/didactic aesthetic, retaining the generous floor to soffit heights. The deep plan is skillfully subdivided through the use of strategically placed fully-glazed spill-out rooms and informal vend/sitting/meeting spaces. The aesthetics were achieved through fastidious attention to detail, and assistance with statutory building regulations compliance.

BREEAM becomes Outstanding in the Czech Republic

The first commercial building outside the UK to achieve BREEAM Outstanding has been awarded to The Tower at Spielberg in Brno.

BRE director Martin Townsend awarded the BREEAM Outstanding certificate to Stefan de Goeij, head of property management at CTP, for the office building located in the centre of the Czech Republic's emerging high-tech city of Brno.

The building was designed by award winning team of Dutch and Czech architects Studio Acht and is a true demonstration of good design, reducing the CO₂ emissions by over 50 per cent compared to a typical building, built to Czech regulations. The building also used district heating, a heat exchanger and a heat recovery system and local renewable energy sources are used to power the building, with the façade of the concrete frame comprises of 50 per cent reused materials.

Seven innovation credits have been

achieved for minimising construction site impacts, high levels of daylighting, avoidance of VOCs, use of renewable technologies, provision of alternative modes of transport, water sub-metering and management of construction site waste. The building also achieved 100 per cent of available credits for Management, Health & Wellbeing and Waste sections.

Stefan deGoeij said: "...That CTP has successfully delivered the first BREEAM Outstanding building in continental Europe is a testament to our long-term commitment to developing premium-class properties at the highest standards."

Martin Townsend said: "The benefits that BREEAM brings are triple fold – not only reduced environmental impact buildings that are higher value assets with reduced running costs but ultimately well-designed buildings that are great to work with inspire increased productivity. The Tower at Spielberg is a great example of this..."

enq. 602

COMPETITION

'Stone becomes Art'

With its European-wide Product Design Award 'Stone becomes Art', ROCKPANEL is exploring innovative new ground. A unique 'stone look' façade board design is being sought. The aim is not to imitate real stone surfaces that already exist, but to come up with a creative reinterpretation and enhancement.

From June to August 2013 architects, planners, product designers and specialists of related disciplines as well as students and working groups are called upon to participate in the creation of a unique 'stone look' façade board design.

With regard to aesthetics, texture, grain or colour variation, ROCKPANEL is looking for a convincing, innovative creation that sets new standards in terms of its ingenuity and how it can be used.

The winner will receive €5,000 in prize money. The designs in second and third place will win €2,000 and €1,000 respectively. Besides the prize money the winner's design will be developed until it is ready for production and then added in 2014 as part of a new stone design range, with direct reference to the winner's name.

Entries will be judged by an expert panel of international and cross-disciplinary experts from the areas of design, architecture



and materials research. The jury's election of the best three façade board designs is based upon the following criteria:

- Uniqueness and creativity of the design
- Aesthetic standards
- Feasibility
- Variety
- Popularity within the ROCKPANEL social media community.

Designs may be submitted up to 31 August 2013. For more details visit www.award.rockpanel.com

enq. 603

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enquiry
102

cpd focus

UNDERSTANDING AND SPECIFYING INVISIBLE SOUND SOLUTIONS



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

01480 354390
www.amina.co.uk

enq. 103

A GUIDE TO RAINWATER HARVESTING, THE BENEFITS OF HIGH EFFICIENCY PUMPING AND SURGE PROTECTION – DESIGNING OUT HYDRAULIC SHOCK



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

01283 523000
training@wilo.co.uk

enq. 106

INTRODUCTION TO FIRE RESISTANT GLASS & GLAZING SYSTEMS



SCHOTT UK offers a comprehensive, RIBA-approved CPD called *Introduction to fire resistant glass & glazing systems*, which enables architects and specifiers to gain the knowledge required to select the appropriate fire resistant glass solutions for a building. It provides detailed information about the testing criteria, applications and range of products available. The CPD addresses key areas that are vital in the decision making process such as:

- Why we use fire resistant glass?
- What does fire resistance mean?
- Fire resistant criteria explained
- What types of fire resistant glass are available?
- The importance of suitable framing systems
- Compatibility of components
- What specific solutions are possible with fire resistant glass?

The protection of people and property is fundamental when developing new or updating existing buildings. Fire resistant glazing is critical when considering life safety and the building fabric. Let this CPD guide you through what matters most.

Please note that this CPD covers three points of RIBA core curriculum:

- Being safe: health & safety
- Compliance: legal, regulatory and statutory frameworks and processes
- Designing and building it: design, construction, technology and engineering.

01785 223 166
www.schott.com/uk

enq. 107

SOLAR SHADING SOLUTIONS CPD



Faber Blinds is passing on its expertise in the form of a RIBA-approved CPD. Senior specification manager for Faber Blinds, Simon Barratt, explained that the Solar Shading Solutions CPD highlights the importance of sustainability and the challenges of designing, manufacturing and installing products to meet the exacting standards of such projects. It also provides an overview of current EU regulation and the requirements of LEED and BREEAM.

01604 766251
www.faberblinds.co.uk

enq. 104

GLASSOLUTIONS INTERIOR GLASS CPD



GLASSOLUTIONS is offering architects and designers the opportunity to advance their knowledge with its new RIBA-approved CPD seminar on interior glass specification. The seminar gives detailed information about recommended glass types, the latest regulations and numerous applications for interior glass within buildings. Real life projects illustrate how interior glass overcomes design challenges. For details or to book please contact:

interiorglass@glassolutions.co.uk
www.ribacpd.com

enq. 108

FDS CONSULT'S CPD SEMINARS



FDS Consult has introduced its 2013 webinar series. Building on the company's experience in delivering high quality CPD seminars, FDSC's engineers will now be offering lunchtime sessions online to those unable to attend their CPD sessions in person. Aimed at an audience of architects, consultants and contractors, the sessions will offer an overview of fire engineering, achieving building regulations compliance and value engineered solutions.

01322 387411
www.fdsconsult.com

enq. 105

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. 109

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Maintaining and improving professional competence, skills, abilities and knowledge

AN INTRODUCTION TO SMALL OFF MAINS DRAINAGE SOLUTIONS



WPL provides a CPD seminar offering guidance to architects who deal with drainage for wastewater from single houses and small communities that cannot connect to the mains sewerage network. It includes a review of the wastewater treatment options, environmental requirements and regulations, building regulations, biological sewage treatment systems, effluent disposal options and soak-away design. It covers two RIBA core curriculums: Compliance and Designing and building it.

023 9224 2600
www.wpl.co.uk

enq. 110

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. 114

INNOVATION FOR SINGLE PIPE HOT WATER SERVICES



Pentair Thermal Management has been awarded CIBSE approval for its latest CPD seminar, *Innovation for Single Pipe Hot Water Services*, which looks at how to deliver energy efficiency, comfort and safety as well as carbon reductions and how an 'act now' policy results in benefits now and in the future. It explains how single pipe hot water distribution needs to be implemented for long term efficiency to delivery of safe, comfortable temperature, hot water. It also gives details on future proofing by installing a system that will improve in carbon efficiency throughout its lifetime.

0800 969 013
www.pentair.com

enq. 111

CPD SEMINAR FROM THE LEAD SHEET ASSOCIATION



The Lead Sheet Association provides accredited training and technical advice as well as producing a range of information for specifiers and installers. Its RIBA-approved CPD provides an introduction to manufacturing methods and the technical, life cycle and sustainability characteristics of lead. It also explores the main uses of lead sheet, looking at flashings and weatherings, roofing and cladding and the restoration of old and historic buildings.

01622 872 432
www.leadsheet.co.uk

enq. 115

GEZE CPD SEMINAR EXPLAINING THE IMPLICATIONS OF EN 16005



As a new European safety standard for power operated doorsets comes into force, GEZE UK is offering British architects a CPD seminar explaining the implications of EN 16005. Approved by RIBA, GEZE UK's CPD seminar will explain how EN 16005 addresses the potential hazards and hazardous situations relevant to power operated doorsets and the ways in which it supersedes and differs to the more familiar BS 7036.

01543 443000
www.geze.co.uk

enq. 112

ENVIROVENT VENTILATION CPDs



EnviroVent offers a range of highly informative CPD seminars for architects, contractors, specifiers and local government personnel. The seminars cover a range of relevant topics including a close look at the revisions to Part F and Part L of the Building Regulations and the importance of installing the correct type of ventilation. The seminar can be delivered during a lunch hour or as a detailed presentation demonstrating the latest innovative and sustainable technology.

01423 810810
http://www.envirovent-specifier.com/cpdseminars.php

enq. 116

FENESTRATION: WINDOWS, DOORS AND CURTAIN WALLING

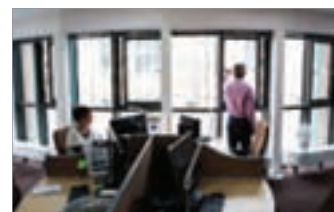


A new RIBA-approved CPD from REHAU gives architects and specifiers a useful insight into the current requirements for designing and specifying windows, doors and curtain walling as part of an energy efficient building envelope. It covers the benefits and drawbacks of the different materials and styles used in the UK fenestration market, the most suitable applications for different types and the design considerations which affect their specification.

0207 580 6155
http://www.ribacpd.com/rehau-ltd/6250/overview/#2354

enq. 113

OPEN AND SHUT CASE FOR NATURAL VENTILATION AND SUSTAINABILITY



Securistyle offers three CPD presentations to advise on the latest issues and legislation. The 'Open and Shut Case for Natural Ventilation and Sustainability' covers the importance of and options for natural ventilation in communal buildings where the requirements for internal air quality are stringent and where there is a higher risk of occupants falling from an open window. It explains how this is achievable without compromising the external aesthetics.

01242 221 200
www.securistyle.co.uk

enq. 117



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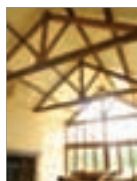
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enq.119

A helping hand for oak design from SEMA4c



The design and manufacture of traditional joinery and green oak structures has taken a positive step forward with the combined range of Computer Aided Design and visualisation 3D graphic software packages from new timber software specialist, SEMA4c. Accurate customised quotes can be produced quickly and presented to the client with detailed 3D visualisations of the project – an invaluable aid to sales and marketing as well as to the design and production department. With their sharp graphics and detailed production drawings, the SEMA4c systems will help the sales and marketing teams quote more and win more orders. The SEMA software not only offers stunning visualisation for customer presentations but also makes customisation and modification of the design to suit customer preferences easy.

enq.120



adf newsletter

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

www.adfonline.eu – register now

FESTIVAL

Love Architecture Festival

Make a Lego version of your own house, build a competition-winning sandcastle in the shape of Houses of Parliament, feast your eyes and tastebuds on a real ale walking tour of the hidden architecture of your town.

The RIBA is inviting the British public all over the country to celebrate the places and buildings they love this summer with the Love Architecture Festival.

The 10 day festival, from 21 – 30 June, features over 300 events and takes place nationwide.

To find an event near you, go to www.lovearchitecture.org

THE FUTURE OF BUILT ENVIRONMENT EDUCATION

Key new voices join the debate

Senior figures from key professional bodies in the built environment arena have confirmed their support of the Ryder led Future of Built Environment Education Campaign.

Chris Blythe, chief executive of CIOB; David Gloster, director of education, RIBA; Alan Muse, director of built environment professional groups, RICS; and Martin Powell, chief executive, IStructE all attended the latest meeting of the campaign group, which is pioneering a pan-industry led reform in built environment education and entry to the industry professions.

Stephen Matthews, chief executive at CIBSE and Alison Heron, head of student recruitment at KPMG have expressed their interest in being involved in the campaign in future.

The campaign group has proposed a new four-year course, including a year

in industry, covering economics and property development, architecture and landscape, environmental science, structural and civil engineering, construction and property management. Earlier in the year, Peter Buchan, Senior Partner at **Ryder Architecture**, met with Professor Alan Penn, Dean of The Bartlett Faculty of the Built Environment at UCL and discussions are ongoing to see if and how the world-renowned university might run the first pilot.

Anyone who would like to be involved in the discussions can register their interest via the Linked In debate at Groups/architectsjournal... "Does the ARB/RIBA Part1/2/3 system need an overhaul? How can we better prepare students for a life in today's profession?"

Alternatively email Claire Lalaguna on clalaguna@ryderarchitecture.com

news bytes

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

'Cathedral' of northern methodism transformed after major refurbishment...
Ref: 75538

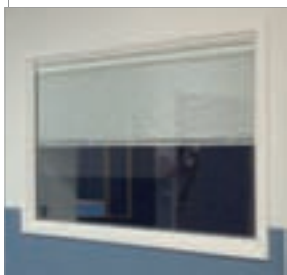
Look at some of Nottingham Trent University's architecture degree show highlights...
Ref: 71394

Atkins selected for design work as Tampa International Airport expands...
Ref: 55353

Vistamatic

betweenglassblinds™ offer the convenience, style and shading benefits of a Venetian blind without any potential safety concerns or the hassle of ongoing maintenance and cleaning. These blinds are completely sealed within a gas-filled double glazed unit. They are available in a range of colours with either a magnetic manual control or as a fully automated, motorised system. A full range of glazing options is offered including added security or solar protection. They are perfect for public buildings, like hospitals and schools, as well as commercial and residential environments.

enq. 121



editor's focus

aquabocci

The idea of having a small slot in between tiles that acts as a drainage system has always been a nice thing to imagine, but now aquabocci has designed a product that makes it a reality. The Blade by aquabocci is the latest fashion accessory from the London-based industrial design house. It features a 1,200mm removable anodized alloy lid and is available in five sleek colours; matt black, titanium, metalazan, champagne and GT Silver. The blade has taken two years to develop and it is anticipated that this new product will be another success.

enq. 122



Ecological Building Systems

Ecological Building Systems, the sole agent for pro clima in the UK and Ireland, is delighted to announce that the pro clima range of airtightness and wind tightness building products now have NBS specification clauses. Penny Randell, of Ecological Building Systems commented: "The pro clima range has the solution for every critical airtight and vapour control junction, gaining NBS now makes the whole system much easier to specify for architects and is just another step in our progression and commitment to working actively within the specification market."

enq. 123

Continued on page 19...





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enq.126

Langley Design

Langley Design manufactures a wide range of street furniture and often provide bespoke items to match specific needs. A range of quality materials, all sourced responsibly, ISO9001 quality control and a 'can do' attitude has led to products being used on hundreds of projects nationwide. Specialising in the education sector, where cost is a key driver, the comprehensive range of products are suited to all schemes. With over 300 products, Langley Design is an organisation offering complete external solutions and is becoming a first choice for designers.

enq. 127



Innova Design Solutions

Well designed environments stimulate productivity and play an important role in improving results. Research shows that design is key; bringing out the best in staff and students as well as improving communication and increasing performance by an estimated 25 per cent. From high quality, purpose designed furniture to zoned areas that allow varied activities; well designed interiors have a significant influence on the users of the space. Innova Design Solutions Ltd specialises in the design, manufacture and installation of furniture and interiors, providing inspirational spaces, which never fail to make an impact.

enq. 132

editor's focus

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. 128



Hush Acoustics

Hush Acoustics offers a full consultancy service and an extensive product range to ensure compliance with the performance standards of BB93. It provides technical information to comply with the revised BB93 standards for both new build developments and refurbishment projects and provides practical and economic solutions to acoustically treat problematic areas. Hush also offers consultancy on the best ways to minimise noise levels, including recommended layouts, ensuring each area is fitted with the correct material to maximise sound insulation and a reduction in ambient noise levels.

enq. 129

Marmax

Recycled plastic makes a cost-effective alternative to timber for outdoor furniture and buildings and helps reduce waste to landfill. The Welwyn outdoor classroom from Marmax Products is made from over 62,000 one-litre milk containers. Marmax, a winner in the recent Green Apple Environment Awards, also offers a range of benches, fencing and boardwalks and can manufacture to architects' specifications. Tracey Scott of Marmax said: "Recycled plastic is also more hard-wearing than wood and is maintenance free, so it's both a sustainable and cost-effective choice."

enq. 130

Wedge Group Galvanizing

Workshop Galvanizing, part of Wedge Group Galvanizing, has galvanized more than 120 tonnes of structural steel used to build an Anaerobic Digestion (AD) plant at St Nicholas Court Farm in Kent, as part of a renewable energy project that will turn farm and food waste into electricity. The new AD plant has been constructed alongside an existing array of solar panels at the farm, and will produce around 4.4 megawatt-hours of electricity per year, enough to power the farm and around 1,200 homes.

enq. 131

The 'click and collect' primary school

Oakfield Primary School is the first of a new wave of standardised schools designed to drive down project procurement costs in line with government targets. But does it deliver and what impact will increasing design standardisation have on architects? Stephen Cousins reports



© Willmott Dixon

Since the concept of standardised schools was first mooted by the government in 2011, as a means of building schools more cheaply by simplifying the procurement process and achieving efficiencies of scale in terms of materials and construction, a fierce debate has raged between those who back the concept and its opponents, including many councils and architects, who fear that building with a limited palette of materials, systems and components will lead to a lapse in design standards and the creation of characterless identikit buildings.

But, like it or loathe it, standardisation is now the shape of things to come after the government decreed this May that schools funded under its major school building initiative, the Priority Schools Building Programme (PSBP), must contain some form of standardisation.

The first wave of standardised schools opened across the country in 2012, with architects Atkins and Allford Hall Monaghan Morris and contractor Laing O'Rourke working together to complete schools in Barnsley and CPMG and Wates finishing a project in Doncaster.

And in November, the first of a new wave of fixed-price 'off the shelf' primary schools was completed by Willmott Dixon in Rugby, Warwickshire. Built under the brand Sunesis and based on a design by Hunters Architects, Oakfield Primary School is a single storey, one form entry school arranged around a wide central 'street' with classrooms running along each side, an assembly hall at one end and a covered portico opening onto a play area positioned at the other.

The school was built in partnership with Scape, a company set up by six local authorities to help deliver construction projects more efficiently, it cost just £2.7 million and was delivered in just 26 weeks, about a month faster than an equivalent traditional build.

For clients looking to commission a new school, Sunesis enables them to quickly select a design and receive a lump sum fixed price quote for it with a few simple clicks of a mouse button, explains Tim Carey, Sunesis product director for Willmott Dixon: "From day one the client can go on to our website and find out exactly how long the school will take to build, the spec they will get and the cost, a very transparent process."

Continued on page 23...

'Opponents [to the standardised design debate] fear that building with a limited palette of materials, systems and components will lead to a lapse in design standards and the creation of characterless identikit buildings'



© Willmott Dixon

Oakfield Primary
School exterior



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enq.134

The move to standardisation

Government backing for standardised schools came in the wake of Sebastian James's review of the school building programme, published in April 2011, which found that the process of building educational establishments was "complex, time-consuming, expensive and opaque", that schools were failing minimum design standards, projects were delayed and costs were escalating. James recommended a 30 per cent cut in the cost of school buildings, mostly through the centralised and standardised procurement of construction.

Two years on, standardisation looks set to threaten bespoke architectural approaches to designing schools. According to the Education Funding Agency, the first schools in a batch put forward by contractors under the PSBP programme must now be capable of being replicated for subsequent schools "without the need for entirely new designs". Approaches it endorses include: entire standardised schools or parts of schools; a kit of parts approach utilising standardised components; standardised dimensions and grids; as well as standardised approaches to procurement.

In a scramble to win work on the PSBP programme, contractors and architects are trying to promote various standardised designs that range from 'off-the-shelf' schools, or schools built using either modular or traditional methods,

each purporting to bring cost savings of up to 60 per cent.

The Sunesis approach aims to draw on efficient examples of standardisation in other industries, such as car manufacturing, and apply them to school building. "When buying a car, you don't really care how the engine's built as long as it performs and is economical to run, and we feel the same idea should apply when procuring a school. You wouldn't pay a car designer to design the car for you, you would simply go and buy one from a showroom," says Carey. For some this is a difficult concept to swallow and it summons images of a production line approach to school building that threatens to create sterile identikit learning environments, but Sunesis presents a compelling financial case. In general terms, Willmott Dixon says it can build schools 'up to' 30 per cent cheaper and 12 months faster than the alternatives.

The existing Oakfield Primary school building was built in the 1950s and needed to expand as classes were spilling out into temporary accommodation. The plan was to extend the school through a £2 million refurbishment, but Sunesis would enable them to build a brand new school on the site for only £200,000 extra.

Oakfield is an example of Sunesis' Keynes standardised design model, the most cost effective in a range of primary

Continued on page 25...

'It summons images of a production line approach to school building that threatens to create sterile identikit learning environments'



© Willmott Dixon

Sunesis' Keynes model interior



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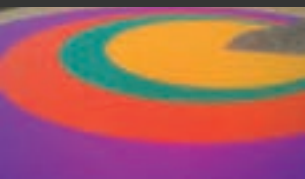


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school designs that include the Newton, Dewey and Paxton. Each model is designed to be built using different structural systems and materials and tailored to different types of site. Oakfield features a steel portal frame with metsec steel infill walls, whereas the Dewey utilises a light gauge steel frame, and the Paxton a more architecturally interesting radial design built around a more expensive cross-laminated timber frame.

The basic one-storey Keynes model costs £2.2 million without any other optional extras, “in a similar way to buying a car, you have the base model and then you can spec it up if you wish,” says Carey staying with the car analogy. Oakfield employed the basic, no frills Keynes, but incurred £0.5 million in extra costs related to site-specific factors including the need to demolish existing structure, level the plot and install an additional access route.

The Sunesis approach essentially reverses the design process for a school, says Willmott Dixon, as all the nuts and bolts of a project in terms of the building’s layout, structure and basic materials are worked out in advance, enabling the client to focus on aspects that matter most to end users, such as site specific factors, personalisation of the building’s finishes and soft furnishings.



Sunesis' Newton model cutaway and roof

“I’ve worked on a lot Academies in the past and there is often such a tight timescale project teams spend the first 10 weeks of an opportunity discussing details such as what walls are going to be made of and only the last two weeks considering things that actually matter to the school, such as colour finishes, the feel of materials, and other personalisation features,” says Carey.

Continued on page 27...

Tougher high-performance flooring



A tougher, high-performance vinyl flooring for busy public areas has been launched by global specialists **Gerflor**. Architects, specifiers and contractors will appreciate the improved colour choices, durability and lighter weight of new Mipolam Elegance. Suitable for education, healthcare and retail sectors, the homogeneous flooring has a Group T wear rating and comes in 33 contemporary colours. Treated with Evercare™ surface treatment, Mipolam Elegance is scuff resistant, needs no waxing or acrylic polishes to maintain appearance and the combination of Evercare™ with other treatments also ensures that chemical stains can be safely and hygienically removed with a minimum of water and detergent.

01926 622600 www.gerflor.co.uk

enq.136

High usage entrance door with 1.7 U-value



Jack Door TD68 thermally efficient aluminium door and framing system can now achieve a 1.7 U-value. "With more commercial doors, such as those in schools, needing lower U-values to ensure projects hit Building Regulations, this is good news for fabricators and installers," says Jeff Pearson, sales director at **Jack Aluminium**. Jack Door TD68 is

designed to give excellent thermal performance and includes a thermally broken threshold to help achieve a U-value of 1.7. It can take electric strike opening as standard and there's an optional automatic door header bar making it ideal for high throughput doors.

024 7646 7449 www.jackaluminium.co.uk

enq.138

Reginox launches commercial sink range



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.137

Back to school for System10 Aluminium



Bowater Projects has teamed up with Provizion First Architecture and Derwent Valley Construction Ltd to provide the energy-efficient windows and curtain walling required at a Derby school. West Park School in Spondon is a specialist mathematics and computing academy, which had two buildings that were in need of refurbishment. The project comprised the complete replacement of all windows, aluminium-framed doors and curtain walling on

these single and two-storey buildings. Double-glazing replaced largely single-glazed curtain walling in order to improve the thermal and acoustic insulation of the building and improve the internal environment.

01282 716611 www.system10aluminium.co.uk

enq.139

enq.140



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. There was considerable surface damage to deal with including scratches and scrapes and a build up of maintenance products. Bona recommended that Bona Traffic HD would provide the most durable finish for a surface that was subject to constant traffic from pupils and the public attending a wide range of events and performances. 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 after application of the final coat.

01908 525 150 www.bona.com

enq.141

WD has invested around £1.6 million upfront in developing Sunesis designs, which are all BIM compliant and have been tested in a 'virtual lab' in the hope that any potential issues are picked up before a spade has hit the ground.

The pre-construction period is also substantially shorter using Sunesis, thanks to the involvement of Scape, a framework

that enables clients to avoid the time consuming requirement of having to go out to European tender through the OJEU process. As a result, Willmott Dixon says that, in theory, Sunesis projects can get to site in just 20 weeks subject to planning.



'The minute you start moving walls about it alters the thermal model, the maintenance regime, and has other knock on effects'

Tim Carey, Sunesis product director, Willmott Dixon

Oakfield Primary School
Learning Street

Design vs standardisation

Despite the many benefits for procurement, Sunesis' highly-standardised approach raises difficult questions regarding the future role of architects on school projects.

The base design for each Sunesis model was worked up by a different architect in collaboration with Willmott Dixon – Hunters worked on the Keynes and Dewey models and Whites Design on the Paxton. But on a project by project basis, bespoke versions of the models are unlikely, with architects only given responsibility for helping produce the initial feasibility study and working up planning applications and site-specific drawings.

"We don't actively encourage that base designs are changed because the minute you start moving walls about it alters the thermal model, the maintenance regime, and has other knock on effects. Clients would also have to pay consultants to complete the extra design work, making the initial fixed price less certain," says Carey.

Nevertheless, Sunesis offers clients some different specification options, such as either external brickwork, render or cedar cladding, single ply, or standing seam metal roofs and different sustainability options such as green roofs, photovoltaics and/or solar thermal.

For some this will make for bleak reading and indeed it's unclear how far efficiencies can be pushed on standardised school projects in general without damaging pupils' environments. In an article on Sunesis, Guardian architecture critic Rowan Moore labelled Oakfield "a modified shopping shed" and the RIBA has criticised the standardisation concept as a whole, warning that it is likely to create buildings that quickly become redundant and increase discipline problems among children including bullying, countering current best practice in design. However, Oakfield Primary's head teacher, Heather Fielding is reportedly extremely happy with the result. Only time will tell if Sunesis is a class act worth following.

Innovative eXtreme Plastic Lockers® help schools save corridor and classroom space



Schools never seem to have enough space. Class sizes are rising, while government funds for building expansion are near non-existent.

The result is that many schools need innovative solutions that enable them to create more space in corridors and classrooms without expanding their buildings.

Without enough space in corridors and classrooms, the school authorities need to find a radical solution. In the search for answers, schools contacted storage equipment specialists Action Storage Systems Ltd, who recommended the perfect product.

Within its range, Action Storage Systems Ltd supplies eXtreme Plastic Lockers® made from hard density polyethylene. This exceptionally durable and non-corrosive material enables lockers to be stacked outdoors under cover without the risk of them deteriorating in the weather. The ability to stack the eXtreme Plastic Lockers® outdoors meant that schools could provide safe, secure storage for its pupils without the need to expand its classrooms or corridors.

One advantage was the prevention of theft. Ordinarily, stack-

ing lockers outdoors would pose an enticing target for vandals and thieves. They would struggle, however, to even make a dent in eXtreme® Plastic Lockers. The doors are tough enough to resist break-in attempts, as we have fitted thicker cam arms, than standard lockers. This durability gave the school and its pupils the reassurance of knowing that valuable possessions, books and gym kit would be safe and secure, whether during the daytime or if they were left behind overnight.

Another benefit of the eXtreme Plastic Lockers® is that they enabled schools to maintain high standards of hygiene. Metal lockers can be time-consuming and awkward to clean, making them breeding grounds for bacteria and germs. Keeping lockers clean is particularly important for schools, as there are few places more prone to outbreaks of illness than packed corridors and classrooms. Being made from waterproof polyethylene, however, enables the eXtreme Plastic Lockers® to be quickly and thoroughly sprayed cleaned with a high pressure hose. Drainage holes in the base of each locker allows water to drain through, saving the time and energy of having to dry them manually.

Saving space, reduced risk of theft and improved hygiene were three benefits the schools gained from the eXtreme Plastic Lockers®. They also gained Action Storage's expertise in identifying the best location and stacking arrangement. This was as a result of Action Storage's survey and design service, whereby it assesses the available storage space before providing CAD drawings on the best storage arrangement. This often leads to cost savings, along with increases in storage capacity.

Over the last three decades Action Storage Systems Ltd, has outfitted more than 800 schools, colleges and universities. This includes large installations at Dr Challoner's Grammar School, Frensham Heights, Bartley Green School and Saddleworth School. All of them have benefited from Action Storage's space management expertise and its innovative product range, which includes the ability to save corridor and classroom space by moving their lockers outdoors.

enq.142



0808 250 9321
sales@action-storage.co.uk
www.action-storage.co.uk



A fresh solution from SE Controls for Birmingham City Council offices



Birmingham City Council's award winning office development at Woodcock Street is using an advanced natural ventilation solution from **SE Controls** to create a comfortable environment for staff and visitors, while enhancing the building's sustainability credentials by reducing energy consumption. Designed by Associated Architects, the £38 million five-storey building provides a flexible working environment for around 3,000 employees and forms part of the local authority's plans to rationalise its office portfolio. In addition to rainwater harvesting, a 'brown roof' wildlife habitat and photovoltaic panels, SE Controls' natural ventilation solution also played an essential role in helping achieve the energy reduction targets. SE Controls supplied, installed and commissioned the extensive natural ventilation system, which involved 562 TGC0 chain and tandem type actuators together with 101 OS2 type 22 controllers to ensure the precise operation of automatically opening windows and vents within the workspace and four atria, which are managed by the building's integrated BMS. The natural ventilation system's operation is also enhanced by the construction methods used with the building. Using steel framed construction and steel floor beams with 200mm thick hollow cellular core concrete floor planks, the design optimises the building's thermal mass to enable the temperature to be managed without additional external cooling.

enq.144

Kent Union clean up with waterless urinals



Kent Union, located on the Kent University campus in Canterbury, has an enthusiastic programme of environmental sustainability and their latest project is the installation of 16 Waterless Urinals.

However, the Falcon Flax urinal – supplied by UK distributor **Relcross Ltd** to Eco Ad Ltd – is extra special because it can carry advertisements on a panel at the top. Eco Ad sells the advertising space and shares the income with the owner, giving a return of between 55 per cent and 103 per cent on their investment and a total payback on the capital cost and replacement cartridges within 12 to 24 months.

Kent Union spokesperson Hannah Wallington said: "This is certainly something we would be willing to explore in the future providing the advertising focuses on topics that have a positive benefit to our students." And then there's the saving of up to 150,000 litres of water per year, per urinal – a massive saving in water rates. Kent Union's facilities manager, Helen Close, added: "They are far less smelly than their predecessors and we're looking forward to making considerable savings on our water bills too."

01380 729600 www.waterlesscartridges.co.uk

enq.145

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enq.146

Jeckells shade sail at high School in Norfolk



Jeckells the Sailmakers have installed a square tensored weather resistant canopy and post arrangement at Neatherd High School in Dereham, Norfolk, which covers an area between classrooms. The membrane is fabricated from Weathermax 80 mono filament material, which

provides a sympathetic profile to the area beneath. Jeckells have built up an international reputation for the design and manufacture of quality sails with an almost unlimited degree of versatility in design options, colours and material choice. Apart from UV block, all sails offer complete protection in most weather conditions and the materials are available in either plain or fire retardant specifications.

01603 782223 www.jeckells.co.uk

enq.147

Reynaers good for vibrations



Situated on Holloway Road is Wedgwood Court; home to many a student of London Metropolitan University. Several Reynaers Aluminium glazing systems were recommended for use throughout the build, including window, door and curtain walling systems. Reynaers Vision 50 doors were identified

as the best solution at ground level, a heavy duty system designed to withstand the high traffic requirements associated with campus installations. The range combines durability and flexibility with style to complement the overall modern design and function of the building. For glazed walls, Reynaers CW50 Curtain Walling was installed, providing a solution that allows maximum light entrance inside the building.

enq.149



FastframeUK's complex new-build installation

The Mary Hare School for the profoundly deaf in Newbury, Berkshire, can now benefit from the provision of their newly built accommodation block. The complexity and demanding nature of the project meant that an experienced and high quality contractor was required. It was Fastframe UK's portfolio of successfully completed high profile projects together with the reassurance of the Deceuninck products the company manufactures that helped to secure the contract. Extended folding openers were required to meet a specific ventilation requirement but also protect the pupils inside. A Tremco EDPM membrane needed to be fitted with the cavity closers to create excellent heat retention. The glass specified was 6.2mm Pilkington Suncool to maximise energy efficiency. FastFrame UK installed Deceuninck's 2800 series with a Foiled coating in Anthracite Grey on the outside and white on the inside, matching in with aluminium doors in the same colour. Fastframe UK's fitting teams worked alongside other trades at the site to ensure the contract was completed on time.

01249 816969 www.deceuninck.co.uk

enq.151

Lanes sends in a pig to root out blockage



Lanes for Drains engineers in Derby have used poly-pigs to root out a blocked gas main that builders feared could delay the completion of a new school. Not the kind of pig that oinks, but a poly-pig, which is a device used to clean out pipes. Chris Norbury, East Midlands area development manager for Lanes for Drains, explained: "The pipe had been laid

but not capped. When it rained, silt and debris was washed into the pipes and caused a blockage. Because the pipe was undulating up and down, within the ground, it wasn't possible to use a jet vac to clean it out, so we turned to older technology, poly-pigging, to get the job done."

enq.148

Metrotile: the future proof roof



Metrotile Lightweight Steel Roofing is a durable and versatile roofing solution, featuring benefits that far outstrip those of 'traditional' roofing materials. Metrotile has become an increasingly prominent feature on both refurbished and newly-built educational building projects. From Lincoln's Priory Academies (Metrotile

UK's largest project to date) to the flat to pitch conversion at Southport College that utilises the Metrotile photovoltaic system, specifiers are quickly discovering that the future proof roof is the perfect choice for their projects.

01249 658514 www.metrotile.co.uk

enq.150

Scolmore adds new media modules



As ownership of portable electronic devices continues to increase, so too does the number of leads and adaptors required to keep these devices charged. Scolmore Group has come up with a simple and neat solution with its new USB Charging Module, which negates

the need for a myriad of charging leads and means just one USB cable is required to charge all devices. It is designed for easy installation into a 25mm back box and has a charging capacity of 1000mA. An ideal retrofit product, the application potential is enormous with homes, offices, schools, hotels, education, leisure outlets and transport interchanges all set to benefit.

01827 63454 www.scolmore.com

enq.152

SipBuild UK school extension in five weeks



SipBuild UK manufactured and built a new classroom and series of extensions at Meadowside CP School in North Yorkshire, in just five weeks using Structurally Insulated Panels (SIPs). Meadowside needed to increase the capacity of its classrooms to meet the demand for places created by the credit

crunch baby-boom without disrupting term-time activities. SipBuild UK MD Chris Duckworth said: "This was an ideal project for SIPs and the results have been amazing. We were on-site within five weeks and built an entirely new classroom within five days. This allowed other contractors to get on-site and complete the roofing, rendering, wiring and plumbing without disrupting the school calendar."

0845 689 1974 www.sipbuilduk.co.uk

enq.153



The distinctive High Street façade has been fully restored

Faded facility restored to major attraction

Canterbury has transformed a tired art museum and library into a go-to destination for the city's residents and visitors, as James Pringle reports

One of Canterbury's historic buildings is enjoying a new lease of life. The magnificent façade of the Beane Institute Art Museum and Library has adorned the high street since the end of the 19th century, when a bequest from Dr James Beane funded the building of 'an institute for working men' to replace the city's cramped museum and free library.

An extension added a lecture hall and a purpose-built picture gallery in 1934, and in 2004 Canterbury City Council

and Kent County Council formed a partnership to develop a radical makeover. Funded by the Heritage Lottery Fund, the Homes and Communities Agency, the European Union, the East Kent Partnership and others, the £14.2 million redevelopment has renovated the building and doubled its capacity with a new wing.

Relaunched as the Beane House of Art and Knowledge, the building comprises the city's library and seven permanent galleries, along with a state-of-the-art special exhibitions

Continued overleaf...



© Guy Gardiner

‘The entrance leads into dramatic top-lit foyer spaces that progress sequentially, culminating in new library and gallery accommodation’

The Beane House of Art & Knowledge's Best Lane elevation (top) and library (right)

gallery and a space for use by artists and local groups, as well as a café, a gift shop and the city's visitor information services.

Architects Sidell Gibson, in association with John Miller + Partners, have designed the new Beane. They were able to enlarge the building footprint and create a new public entrance, following the acquisition and demolition of the nearby Kingsbridge Villas houses on Best Lane. Providing much-needed improved accessibility, the entrance leads into dramatic top-lit foyer spaces that progress sequentially, culminating in new library and gallery accommodation.

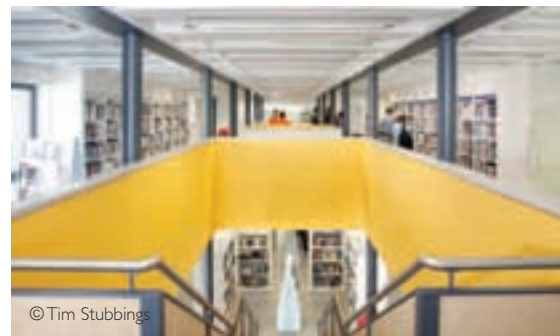
This route engages at right angles with the existing corridor approach from the high street. The reception is at this focal point, opposite a glass-fronted lift shaft and open staircase that act as a pin locking the old building to the new.

The extension envelope achieves high thermal performance and is clad in locally sourced warm red facing bricks, combined with spandrel panels in neutral white render. New clay-tiled roofs match the existing ones, while new high-performance windows are finished in grey powder-coated aluminium.

The original building is a combination of Victorian, 1930s

and Arts and Crafts architecture and decoration. The 19th century façade facing the high street has undergone extensive conservation. Natural oak has replaced sections of projecting bay windows, terracotta ceramic mosaics have been rebbed in lime putty and lead work has been renewed.

“There were many adjacent areas of oak appliqué, which were not structural so much as a veneer by which the original



© Tim Stubbings



© Guy Gardiner

architect obviously wanted to simulate timber frame construction,” says Sidell Gibson lead architect Richard Brearley. “There had been a lot of water ingress behind the front timber and terracotta mosaic veneer, which led to both wet and dry rot and beetle attack.

“There was a big debate about whether one should stain the colour of the new oak to match the old oak, or whether one should just allow it to settle in at its own pace. The conservationists were all for honesty. Indeed there was a feeling that possibly the original oak had been coloured in some way, but we weren’t able to ascertain what that was. So it was decided to leave the oak in the green to weather.”

The façade had an unusual mosaic terracotta infill, much of which had de-bonded from the brickwork. It had to be reset in breathable lime mortar, with matching pieces replacing missing parts.

Existing internal finishes have been conserved, including repairs to terrazzo and wooden parquet floors and the ceiling. Stained glass windows over the main existing staircase had acquired many years’ grime and needed to be taken away for restoration, with the assistance of specialists from Canterbury Cathedral. Stained and patterned glass internal lanterns were cleaned and timber floors re-sanded and made good.

New internal finishes include painted wall plaster, porcelain floor tiles in the public atrium spaces, new solid oak block flooring in gallery spaces and runner acoustic flooring in the library areas.

English Heritage wanted the existing character of the building maintained, but accepted that the extension would feature a different architectural language.

“Architecture didn’t stop at the year 1900,” Brearley points out. “Creating a faux Victorian language for the new element of the Beany would not have been right, and in any case, we were trying to get as much light into the new build as we could.

“Some of the spaces were quite compressed. The new library was working partly on an existing volume that had been extended and had a mezzanine. It was a tight space and we didn’t want to make it dark and gloomy. We wanted to let as much light as possible deep inside the building, and opening up the new atrium to the sky was very important.”

Continued overleaf...



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The new atrium with a rooflight over the public stairs and mezzanine (above) and work in progress on restoring the façade (top left)

‘The volume opens up: which, in a public building, suggests there are important public spaces at the higher levels, and encourages people to go up and find them’

Richard Brearley, lead architect, Sidell Gibson



© Tim Stubbings



© Tim Stubbings

The People & Place Gallery and its illuminated ceiling have been refurbished (top) and the new atrium with main stairs and ‘easy going’ stairs looking towards reception (bottom)

The new side entrance was to relate to the front entrance, to which it would sit at right angles. This dictated that the atrium would be at the centre of the back of the scheme, though it needed to connect to the circulation from the high street at the front. The two circulations meet at the centre, which is filled with light.

“The volume opens up: which, in a public building, suggests there are important public spaces at the higher levels, and encourages people to go up and find them,” Brearley explains. “If they’re not visually connected, or if they’re not understood as being accessible, people will tend not to use them.”

Through windows at the rear of the building can be seen the nearby £25.6 million rebuilt Marlowe Theatre, another part of the city council’s 10-year cultural regeneration plan.

Work on the Beane project began in February 2009; pausing for a few months the following year to allow Canterbury Archaeological Trust to investigate ancient remains beneath the site.

Construction work was completed in April 2012 and the centre opened to the public five months later. Overseeing the relaunch of the museum was the city council’s new director of museums and galleries, Joanna Jones.

“Canterbury city understands the importance of culture to the district, and how it attracts people in, creates jobs and encourages people to visit,” she says.

“The Beane has always been a library and museum since the building opened in 1899. Dr Beane wanted to create an institute that would educate the working classes. Before the redevelopment the building was incredibly dark, dingy and cluttered – not at all welcoming. It didn’t show the collections off to best advantage. There’s been a real transformation.

“Before, there wasn’t a cafe or a gift shop or, believe it or not, any toilets for visitors. We’ve got those now – and, with the visitor information centre now located inside the Beane, it’s the first port of call when tourists arrive in Canterbury.

“The architects have designed the atrium to make you want to explore and discover the building. We’ve now got a fully accessible entrance on the Best Lane side. There are steps at the high street entrance, which we couldn’t change, because it’s a listed building. The physical access was important to ensure accessibility for everyone. When you enter through the Best Lane entrance, there’s a lift to all floors, which is a massive improvement.”

Participation is a major aspect of the new Beane, Jones points out. The ethos is ‘explore and learn, participate and create’, using the building, collections and library.

“The new design is working very well,” she says. “It’s great having a new dedicated special exhibition gallery that’s state-of-the-art, with excellent security and environmental controls. We can now borrow from major galleries and bring fantastic works of art to Canterbury that people might not have seen before. That will attract repeat visits, because people return several times a year and see different things on display.”

“Overwhelmingly the response from the public has been positive. In the first six months we had just over 260,000 visitors. One of the main things they say is what a lovely informal atmosphere there is at the Beaney; how welcoming it is, how much lighter and brighter. We’re getting visits from residents of the Canterbury district and tourists, and plenty of repeat visits. They seem to really like the building, the new circulation routes around it and the fact that there are so many different things to do, all under one roof.”

“The staff love it, and with the transformation they think it’s an exciting place to work. They’re thriving on the buzz of the building.”

The revamped Beaney House of Art and Knowledge has won a Civic Trust commendation and is in the running for a RIBA award.

Richard Brearley concludes: “Like every scheme, it’s gone through moments when budgets had to be looked at very carefully and some of the ambitions reined in, but it doesn’t have that feeling of a building that has had to have a bit cut off, or where the money has run out and specifications downgraded. It holds up very well.”

Archaeological riches

The remnants of a Saxon settlement were of great interest to archaeologists, including cesspits that revealed details about people’s way of life at the time.

“These had gone through a much lower layer of Roman settlement, which the archeologists weren’t fully aware of,” architect Richard Brearley recalls.

“The Beaney had been constructed over part of a Roman forum and one of the Roman city’s principal roads, with a metalled surface. Masonry was thought to have come from a tavern, a jewellery workshop and an area of food stalls.

“At the bottom of the whole thing was a villa that had burnt down, but a beautiful golden bracelet was still hidden under the floor. It’s now on display in the museum.”



© Tim Stubbings



© Tim Stubbings

Client: Canterbury City Council

Architects: Sidell Gibson, John Miller + Partners

Main contractor: Wates Group

Cost consultant and project management: Faithful + Gould

Structural engineer: Campbell Reith Consulting Engineers

Conservation architect: Norman Chang

Exhibition designer: Casson Mann

Showcases: Meyvaert Glass Engineering

Limelite plaster: Tarmac Building Products

The atrium viewed from the staircase (top) and the refurbished Explorers and Collectors Gallery, including its reconstructed Victorian façade and repaired terrazzo floor (bottom)

Under-floor heating in grade II listed house



When the present owner purchased a grade II listed country house situated in Dorset, his first priority was to restore the building to its original state. However with respect to the central heating, he decided to modernise by installing under-floor heating on the ground floor and the first floor. **Timoleon Ltd**, specialist in all aspects

of underfloor heating, was asked to produce detailed designs for heating the ground and first floor; the plans submitted included Timoleon's Staple System, ideal for the new screeded ground floor and the company's award winning LowBoard for the first floor. The Staple system on the ground floor provided a quick, flexible method of installing under-floor heating onto a screeded floor.

01392 363605 www.timoleon.co.uk

enq.154

Saniflo products help maximise use of space



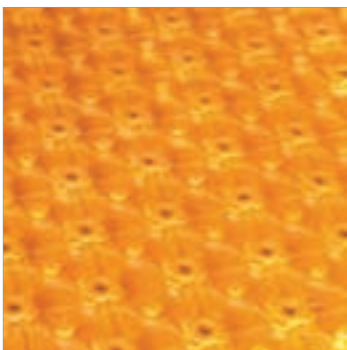
Historic Tedworth House in Wiltshire is famously known as a recovery centre for wounded soldiers. The impressive building has undergone extensive renovation using of a number of **Saniflo** products to facilitate the installation of sanitary facilities to previously inaccessible areas. A Sanicubic high performance macerating pump was specified to discharge waste and water from toilets, basins, showers and a cleaner's sink sited in the basement, while

two Sanispeed commercial pumps pump waste water from sinks in the art rooms. Three Sanishower pumps provide the means to remove water from the Skiplex centre and two further units to remove water from physiotherapy sinks.

020 8842 0033 www.saniflo.co.uk

enq.155

Schlüter-BEKOTEC-THERM heats historic barn conversion



The owner of a derelict farm building in Derbyshire who converted it into a luxury family home has chosen the **Schlüter®-BEKOTEC-THERM** underfloor heating system to heat it. Robert Clifford, a company director, purchased the 120-year old brick and stone constructed Redferns Barn in 2010 and over the past year has overseen its conversion to a family home. This included the installation of the Schlüter®-BEKOTEC-THERM underfloor heating system throughout the ground floor of the 3,000 sq ft 'U'-shaped building, encompassing its large kitchen and dining room, lounge, office, cinema room and bedrooms. Robert comments, "My wife and I lived in a smaller barn conversion in a nearby town and always had the idea of looking at a larger project in the future. We spotted this building by chance in an estate agency window and went on to purchase it. "I first came across the Schlüter®-BEKOTEC-THERM system when visiting the Schlüter-Systems stand at a self-build exhibition. Having picked up a brochure I was particularly drawn to the system's innovative features so selected it for our project." Benefits of Schlüter®-BEKOTEC-THERM include a 30 per cent thinner screed, which helps to distribute heat much faster, therefore using less energy and helping to reduce heating bills.

01530 813396 www.schluter.co.uk

enq.156

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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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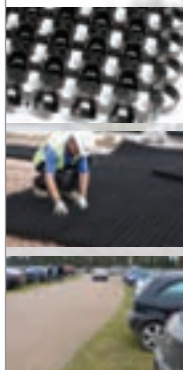
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Winner: Best Worldwide

Why brick is the right material

Take a new look at this most traditional building material says Simon Hay, CEO of the Brick Development Association (BDA)

Brick has long been a favourite among architects, developers and the public. Not only is it beautiful to look at, it has excellent sustainability credentials and it's hard to beat on price. On versatility and pure aesthetics, few rivals even come close. And because we have been building with brick for thousands of years, its technology is well understood.

Made from an abundant natural material, clay bricks have a much closer visual connection with their raw constituents than anything else you'll find in a modern building. Their warm and humanising character brings buildings to life with a wonderful mixture of subtle tones and textures. Bricks blend easily and naturally with their environment and complement other building materials. Furthermore, brickwork can be adapted as a building changes use.

Competitive costs

An investigation by the Royal Institute of Chartered Surveyors (RICS) found that, against a line-up of popular finishes for the external skin, installed brickwork beat just about all of them on price.

The study compared the installed cost per square metre for brickwork against a string of rival external finishes. Some of the highlights were:

- Facing brick came in at £59 per m² (less than some sheeting, pebbledash and proprietary render systems)
- Two thirds of the price of timber weatherboarding
- Barely one third of the price of ashlar stonework.

Moreover, brick scores on 'cost in use'. With reasonable maintenance a brick wall will last indefinitely. Re-pointing might be necessary after 70 years but apart from that no regular maintenance is required. Brickwork also weathers gracefully and mellows with age.

BRE's Green Guide A+ ratings

The BRE's Green Guide to Specification has assigned the highest possible accreditation, A+, to every external wall it rated that contained brickwork.

It states that the choice of external wall specification is probably subject to the widest range of practical, economic and visual considerations compared to other building elements and can account for around 30 per cent of building costs.

The guide provides designers and specifiers with a user-friendly, yet authoritative guide to making the best environmental choices for materials and components.

Thermal mass

As we are increasingly affected by global warming it is becoming more important to consider using materials that offer high

Continued overleaf...



thermal mass performance – clay brick is one such material.

Thermal mass is the ability to store heat – bricks absorb heat throughout the day slowly releasing it at night, ensuring internal temperatures are consistent throughout the day and night. The result is comfortable and healthy living and working environments in which to enjoy stable temperatures throughout the year.

Sustainability

Bricks are a versatile and durable building material, with excellent life cycle performance, energy efficiency, high thermal mass and responsible manufacturing. Brick and brick buildings are sustainable because they:

1. Are highly durable
2. Offer long term life performance
3. Are low maintenance
4. Are energy efficient
5. Provide healthy and comfortable environments
6. Are recyclable



'The BRE's Green Guide to Specification has assigned the highest possible accreditation, A+, to every external wall it rated that contained brickwork'

The brick industry's Sustainability Strategy Progress Report 2012 is based on 10 years of data collated between 2002-2011. Go to the website for more information and to download the report: www.brick.org.uk



The UK clay brick and paving industry is firmly committed to minimising carbon emissions and reducing the impact manufacturing has on the environment. Locally available resources are used as efficiently as possible; to reduce waste, to reduce the energy used in manufacture, to encourage the re-use of materials and to design products with the longest possible life span and best performance.

Very little clay is wasted during manufacture. Unfired waste clay is reused in the manufacturing process and less than perfect fired bricks are crushed and used as aggregates in other parts of the building industry. Materials from Alternative, Recycled and Secondary Sources (MARSS) are increasingly important in the manufacture of clay bricks.

Design

Brick is often chosen as a building material in order to complement and integrate with the surrounding environment, especially in areas with graded buildings. Brick's flexibility means it can be used both to provide a beautiful façade and as an excellent structural material.

Brick works in harmony with other building materials and, with a wide range of colours and varying textures, offers many alternative styles, from rustic farmhouses to contemporary city apartment buildings. Coupled with choices on laying patterns, mortar colours and finishes, brick can be used to leave a distinctive and extraordinary impression on the landscape.



Life performance

Brick offers a sense of stability. With our ever changing weather patterns bringing such weather extremes as floods and high temperatures brick is much more robust than many man-made materials and won't rot, rust, erode or decay.

Brick walls are impact resistant and create buildings that will be around for generations to come. An inert material, brick is not affected by the ravages of water, wind or fire and with inherent sound insulation properties brick shuts out road noises and the howling of winter storms.

Brick is a solid, permanent and low maintenance material that provides lasting beauty and appreciating value – brick offers true longevity. With many elements of past brick buildings still standing today, brick is one of the only truly tried and tested materials known to man.

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Kingspan TEK® shelters flock



The structure of Manchester's new 'Pop-up Cathedral' has been erected on budget and in just 11 days using the high performance Kingspan TEK® Building System. The 220m² building has space for up to 300 people and will be used to hold services over the next 18 months while the city's historic Cathedral is

closed for repairs. The requirements made the Kingspan TEK® Building System an ideal solution for the project. The System is constructed from highly insulated timber panels known as Structural Insulated Panels (SIPs), which are engineered and cut to size offsite, allowing efficient installations with little or no site waste.

01544 387384 www.kingspantek.co.uk

enq.165

BaitSafe™: best kept secret in pest control



P and L Systems would love to tell you all about BaitSafe's recent installation in a prominent five star London hotel, targeting severe rodent issues in the walls and ceilings of the kitchens and reception areas... And about BaitSafe's use in the kitchens of a high profile entertainment facility, targeting pest issues safely and securely out of the reach of employees... Or

about the prestigious supermarkets using BaitSafe to secretly provide 24-hour protection against rodents and insects in the heart of their stores, under retail shelving and display counters... But you won't find them making headlines any time soon – They've all chosen an ultra discreet solution, protecting their customers and staff from the negative attention that pests can create.

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enq.166

Institute of Roofing welcomes 19 Langley staff



An impressive 19 members of staff from Langley Waterproofing Systems Ltd (Langley) have been put forward to become members of The Institute of Roofing this month. The move to induct so many members from the same company is unprecedented and affirms the com-

mitment of the national roofing and waterproofing expert to providing the best service and most skilled members of staff in the industry. The 19 members of staff have applied to join the Institute at a variety of levels, from Affiliate through to Fellow, based on their roles and experience. If successful they will join their Langley colleagues and Fellows of The Institute of Roofing, John Austine, FloR, head of technical, and Mike Jerome, FloR, senior technical manager.

enq.167

Kemper System rolls out the red carpet



A major multinational medical devices, pharmaceutical manufacturer was able to remain operational at its UK headquarters throughout an extensive roof refurbishment project thanks to the solvent-free Kemperol 2K-PUR waterproofing membrane from Kemper System. The original inverted roof design was

upgraded to a warm roof, improving the thermal performance. Kemper's Kempertherm FR insulation board was selected due to its dense closed cell structure and interlocking tongue and groove joints. The joints reduce cold bridging and give a rigid base creating a smooth, flat surface with stable joints.

019 254 45532 www.kempersystem.co.uk

enq.168

Not just another brick in a wall!



The Brick Development Association (BDA) continues to increase the recognition of brick and why it should be the material of choice for all key decision makers in the UK construction industry, with a hard hitting marketing campaign. Fire Proof, Rot Proof and Future Proof; the message is loud and clear as the campaign focuses on the benefits of brick compared to competing cladding materials. Sarah Huelin, marketing and design manager for the BDA explains: "Brick is one of the most successful building materials ever devised. It's been used to shape the built environment since the beginning of civilisation and has proven itself time and time again. Brick is made locally by the community and for the local area with natural resources, minimising impact on the environment". As architects and designers strive to source modern and contemporary materials to enhance their design critique, brick has perhaps been seen as 'traditional and uninspiring', allowing competing cladding materials to emerge into the market place. But the BDA is determined is to set the record straight once and for all. Brick offers a sense of stability. With changing weather patterns bringing such weather extremes as floods and high temperatures, brick is much more robust than many man-made materials and won't rot, rust, erode or decay.

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Bison 'steps up' to energy from waste project



Bison Manufacturing Ltd has supplied its precast concrete stairs for the construction of a new multi-million pound renewable energy facility near Wolverhampton. Working closely with SCWS Steel fabrications, the Bison team manufactured multiple bespoke precast stairs and

landing units for installation at Staffordshire County Council's new Energy Recovery Facility (ERF). Bison's fire resistant precast stairs and landings offer immediate access routes and minimal in-situ concrete, saving time and resource on-site. They are suitable for use across a wide range of applications including hospitals, schools, offices, car parks, retail, multi residential developments and secure units.

enq.171

Minister praises Keystone Group's ambition



A company, which made its name manufacturing and supplying insulated steel lintels to the British and Irish construction industries has been praised for its drive, ambition and innovation on the opening of its new UK headquarters. Chris Grayling MP, Secretary of State for Justice, said

the country needs more companies like the **Keystone Group**, which has created over 20 new jobs at the site and has already got ambitious plans underway for further development. The Keystone Group, which consists of Keystone Lintels, IG Lintels, Keylite Roof Windows and more recently IG-GRP and Smartroof, is the UK and Ireland's largest steel lintel manufacturer and Europe's fastest-growing roof window manufacturer.

enq.173

Outstanding year for the roofing awards



It was a bumper year for the **Roofing Awards**, both in terms of the number of entries and guests attending the awards ceremony which took place on Friday 17 May in London. Contractors, manufacturers, associations and guests from across the UK and overseas, came together to watch the 8th annual awards ceremony, hosted by the glamorous BBC *Breakfast* presenter, Susanna Reid. The Roofing Awards are the only awards that recognise all roofing forms and types, and recognise quality work-

manship within the roofing industry. To see a full list of winners, finalists, sponsors and more head to the website.

www.nfrc.co.uk <http://bit.ly/roofingawards2013>

enq.172

Roof-Pro's first BIM objects



Roof-Pro is proud to announce that the first of its BIM objects are now available for download. The government construction strategy has outlined the requirement for total, industry-wide, BIM-readiness to be achieved by 2016. Therefore, Roof-Pro is an early adopter of BIM technology. Specifiers, designers and contractors will soon be able to include all of

the products in the Roof-Pro range as BIM objects in their project data. Roof-Pro's BIM families are produced as 3D Autodesk® Revit®.rfa files, making them compatible with current industry standards.

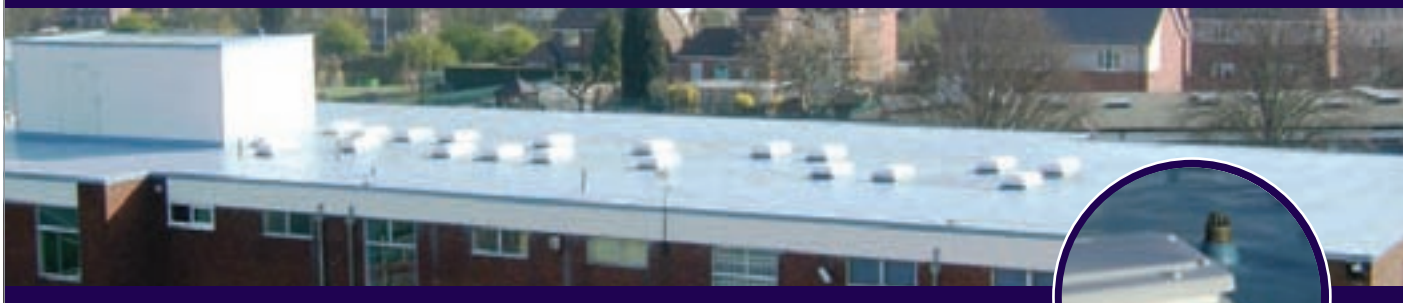
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Steadmans' materials prove undiluted success



Materials made by leading one-stop-shop building products manufacturer **Steadmans** are proving transparently appropriate for Radnor Hills Mineral Water Company in mid-Wales. Construction work followed the demolition of a disused poultry shed,

which previously stood on the site. The new building comprises about 1,600 linear metres of slate blue AS35 80mm insulated roof panels and approximately 450 metres of AS35 60mm wall cladding from Steadmans, who also provided zed purlins and sleeves, flashings, side rail struts, struts, wire and a fire escape door. Steadmans' AS35 insulated panels are available in a wide range of colours and complement their broad variety of pre-engineered construction products, such as gutters, roof lights and doors.

enq.176

Roof-Pro



Roof-Pro is a leading UK provider of non-penetrative building services supports. The company offers a complete design service for consultants, contractors and building owners, to ensure a professional and cost-effective installation. The versatility of the products and services means that Roof-Pro can provide a solution to fit the criteria of almost any specification. Specifying a

Roof-Pro system gives you the peace of mind that stability, load management and future roof maintenance has all been taken care of. All Roof-Pro's Three-Point Certified support solutions carry a 20 Year Warranty.

enq.177

New brochure illustrates Techdek's design versatility



Neaco has released a comprehensive new brochure outlining its acclaimed range of **Techdek** modular aluminium grille systems.

The brochure provides details on a range of open-grille profiles and uses a variety of case studies to illustrate the unrivalled versatility, which has seen them used in a multitude of applications, including roof access walkways, decking, flooring, staging, solar shading, cladding, screening, balustrade infills, stair treads and ventilation.

A new section is dedicated to Techdek's use as pedestrian and cycle ways in a wide range of high profile and award-winning bridge designs. The system's many unique benefits are outlined alongside essential technical information, performance figures and updated fixing instructions.

Neaco's national sales manager, Richard Richardson-Derry, said: "Our Techdek range performs an enormous variety of architectural functions and the new brochure provides examples of this with a series of project case studies. Architects and specifiers will be able to appreciate how these modular grille systems can offer a definitive solution to numerous design requirements."

Like all Neaco products, Techdek comes with a class-leading lifetime guarantee.

enq.178

Wienerberger expands its Sandtoft clay roof tile range with the launch of new clay plain tiles



Sandtoft, a **Wienerberger** brand, has expanded its industry-leading clay product range with the launch of a number of new clay plain tiles in April 2013. Hot on the heels of the launch of the new Barrow and Alban clay plain tile ranges in 2011, each of the new designs brings a new texture or colour to the already sought after range. The new clay tiles are manufactured at Broomfleet, where Sandtoft has extensive clay reserves formed from the alluvial plain of the river Humber over 10,000 years ago. This abundant natural resource is situated directly alongside the manufacturing site, and has been harnessed for generations to create beautiful and highly durable clay tiles. From recycled foundry sands that are carefully pressed into the tile's surface during the manufacture, to new finishing techniques, which bring brand new muted hues to the clay plain tile, there really is a tile for every roof design in the range. The new tiles have been developed together, but each creates its own look on the roof and offers the specifier, housebuilder or homeowner a range of benefits. The Barrow is aimed at those wanting a traditional handmade appearance at an affordable price. The manufacturing process ensures that a generous application of sand is embedded into every tile to create a rich look characteristic of a true handmade tile. There are five colours to choose from, four of which have been designed to emulate Sandtoft's award winning Goxhill handmade plain tile.

enq.179

Axis installs windows, doors and curtain walling at the Coombes School



The Coombes CE Primary school is near Wokingham in Surrey and some of the buildings date back to the 19th Century. Planning permission was granted to demolish the old admin block and build a new extension to provide admin offices, year six classrooms, a junior library and a staff room. **Axis Automatic Entrance Systems** were appointed by main contractor Midas Construction to install doors, windows and some curtain walling. One pair of Stanley Dura-Glide automatic sliding doors and one pair of Stanley Magic Force automatic swing doors ensure full disabled access and a safe entrance and exit for all pupils. These were supplemented by four manual aluminium doors thermally broken to ensure optimum energy efficiency. A steel fire door completed the door requirements. 45 thermally broken Georgian style windows were also installed by Axis together with aluminium curtain walling above the automatic sliding door on the bridge that links the new building with the existing school. Axis managing director Rob Brunero said: "Although we are perhaps best known as sole UK distributors for Stanley Automatic Doors, this project at The Coombes School shows our wider expertise in the installation of all forms of doors, windows and curtain walling."

0844 504 6545 www.axisautomatic.com

enq.180

DML bags itself a deal at new designer outlet

Façades and shopfront specialist DML Group has won a £2.5 million project at London Designer Outlet, currently under construction as part of the major development at Wembley after main contractor John Sisk & Son shopped around for a supplier.

The 350,000 sq ft, must-visit outlet shopping destination, which is being developed by Quintain

Estates and Developments PLC and designed by Leslie Jones architects, is one of two large-scale retail developments – the other being Trinity Leeds, to which DML has been appointed.

The Leeds-based firm will design, manufacture, supply, install and test common area curtain walling, shop front cladding and metal pilasters.

When it opens its doors to shoppers, London Designer Outlet will feature retailers including L.K. Bennett, Superdry, Guess, Nike, Gap, Clarks and Marks & Spencer, a new nine-screen Cineworld and a strong line-up of restaurants including Prezzo, Handmade Burger Co, Las Iguanas and TGI Fridays. Located adjacent to Wembley Stadium and Arena, plus a new four star Hilton, the centre has the largest catchment of any UK shopping centre with 10.4 million residents within a 60 minute radius.

Chris Murray, sales and marketing director of DML Group, said: "DML has considerable experience in delivering large projects like London Designer Outlet and we are proud to be appointed to this prestigious and high-profile scheme by John

Sisk & Son, which will give an exciting new look to the retail landscape in the south-east."

The DML Group has two divisions: Drawn Metal, which provides bespoke metalwork and shopfronts and whose clients include some of the world's leading brands; and DML Architectural Systems, which specialises in external aluminium façades, cladding, windows, unitised and curtain walling and is a preferred supplier for several of the UK's largest main contractors.

The company offers a total capability façade solution from design and build to bespoke entrances, whether clients are seeking a specialised, one-off requirement or a comprehensive, conception-to-completion, full turn-key provision.

0113 256 5661
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enq.181



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.

02920 776677 www.cb-ascent.co.uk

enq.182

RigiSystems provides new look



RigiSystems Alubond rainscreen panels have been chosen for the façade of the marketing suite for one of London's most prestigious new developments – Greenwich Square. This exciting development in the heart of Greenwich combines residential with a new public square including leisure facilities and a

range of retail amenities. Each block of the development is designed to be unique in order to offer different experiences while walking through the site. This is reinforced through the quality and diversification of materials and finishes, exemplified on the marketing suite with the rainscreen panels.

01905 750500 www.rigisystems.org

enq.183

Sustainability in store at Metal Technology



Metal Technology has installed a number of its products on recently-completed Tesco store projects at Salford in Greater Manchester and on a 'zero-carbon' store in Dublin. Metal Technology's System 17 Curtain Walling profiles give limitless flexibility in specification. Offering a wide range

of structural mullions, transoms and feature caps, System 17 can meet the character and performance requirements for expansive glazed applications on any building. The Tesco project saw System 17 installed for the optimum in structural integrity, weather performance and thermal enhancement. All Metal Technology aluminium products are 100 per cent recyclable.

028 9448 7777 www.metaltechnology.com

enq.184

Levolux picked for 'one' in Woking



Originally constructed in 1987, One Christchurch Way in Woking has undergone a comprehensive refurbishment to transform it into a landmark office development, boasting an external solar shading solution, courtesy of **Levolux**. Project managed by CBRE, One Christchurch Way has been revamped, providing 25,000 sq ft of Grade

A office space, arranged over four floors with significant glazing that extends along each elevation. To make the building more energy efficient and attractive to prospective tenants, Levolux was approached to develop a custom solar shading solution, applied externally to south and east-facing elevations. The addition of external solar shading would significantly reduce solar heat gain by absorbing and reflecting a proportion of the sun's rays.

enq.185

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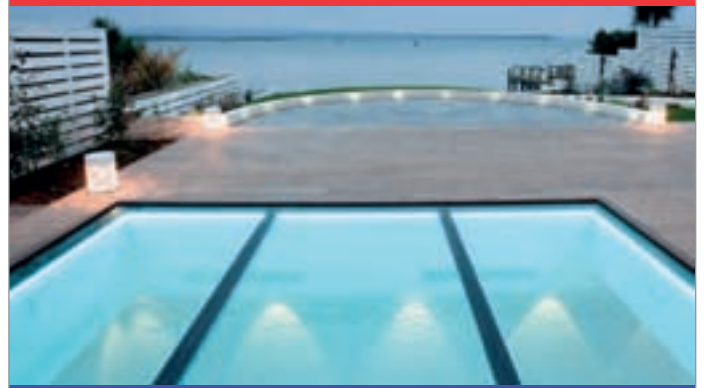
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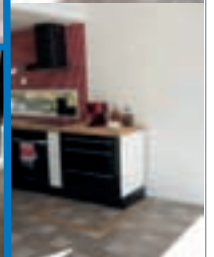
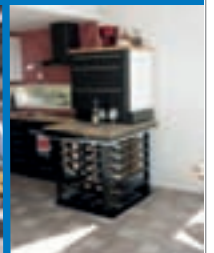
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enq.191

Choosing the right garage door for your project

Experts at Hormann advise architects and specifiers on what to consider when selecting a garage door from the vast ranges available



Choosing a garage door is often left towards the end of a project; however, with the wide range of styles and types available, considering the options at an early stage can add value to a project in terms of both look and functionality.

As well as the almost unlimited choice of finishes available to help create a desired look, there are also the options of matching or complementary garage and entrance door combinations. These can help to define the style of a new development or give a dramatic facelift to a refurbishment project.

In the first instance the type of door chosen will have a bearing on the designs available and the security and insulation properties that can be achieved.

If good insulation and security are a high priority, for integral garages for instance, a sectional garage door is the best option. This style of door rises onto tracks at ceiling height, in sections, and is usually automated – though some makes can also be operated easily by hand. Better quality doors have seals on all four sides, which can add to the truly insulating properties of this type of door. If the best energy efficiency is required then it is worth considering those doors that come complete with an optional thermal break between the door frame and brickwork. These can improve insulation values by as much as 15 per cent.

Similar benefits are now available with side sliding sectional doors, which are suitable for use where headroom is limited or as a style statement. Modern versions that offer smooth quiet travel are now available in a style of door that traditionally has either been a completely bespoke option or an adapted industrial door.

If interior space is limited then a roller door may present the best compromise. As with the sectional doors, they can be opened even if a car is parked right up to them; however, the interior space required is limited to accommodating the roller barrel. Note that, for most garage doors, a casing to cover the roller barrel is required so ensure it is quoted for when you are

looking at the options available. Another point to note is the ease of operation in the event of a power-cut. Some doors can be operated simply by hand, while others require a difficult to use crank handle to slowly raise the door.

Traditional up-and-over style doors are the least expensive option; however the levels of security and insulation are significantly lower than with sectional garage doors. These come in two types, the canopy and the retractable. The canopy door is so called since approximately one third of the door sticks out from the garage once opened creating a canopy. The retractable usually costs slightly more but slides completely into the garage on tracks suspended from the ceiling. The latter option is more reliable in the long run but you need to consider how the tracks will restrict access to internal doors and power supplies etc. Both these doors need space in front to allow the door to swing out to open. For an external garage, used simply to house a car, these are a good option and can also be automated.

For communal garages the demands are seemingly contradictory. They need to be secure and easy to access, robust yet in harmony with the building design and capable of high frequency use, with minimal maintenance, all while operating where space is often extremely limited. These doors tend to marry the combination of industrial components to aesthetic designs, with the option of on-site infill with a material of the architect or designer's choice offered by some manufacturers.

Design and functionality can go hand in hand, by considering the actual needs of a project and then choosing the style of door that can deliver the right values and look. Doors can be finished in steel, glass reinforced polyester (GRP), timber or, with some bespoke options, the material of your choice.

Carefully considering the garage and entrance door at the start of a project can have a significant effect on the overall design and perceived value, simply because they can represent over 25 per cent of the façade.

'The type of door chosen will have a bearing both on the designs available and the security and insulation properties that can be achieved'

enq.192

Vicaima brings a new dimension to doors



Always pushing the boundaries of door design and technology, **Vicaima** has expanded its range of doors with the launch of another innovative new product. Dekordor 3D brings a new dimension to door design, using a moulded polypropylene based finish, which allows striking

embossed effects while at the same time offering high resistance to water steam, chemicals, mildew, light damage and scratches. The doors are perfect for anyone looking for something unique and distinctive that will set their scheme apart from the competition. Dekordor 3D includes a variety of finishes, with an embossed design, which contrast matt finishes against gloss to stunning effect.

01793 532333 www.vicaima.co.uk

enq.193

Bowater Doors boosts capacity



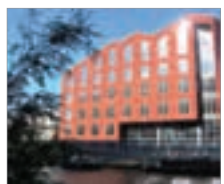
Bowater Doors is one of the UK's leading manufacturers of energy-efficient composite doors and a company of the VEKA UK Group. Bowater has relocated its manufacturing facility from Coventry to Minworth, Sutton Coldfield, in a move that increases capacity and also reinforces the company's position

at the forefront of door manufacture in the UK. The new 66,800 sq ft factory greatly increases manufacturing capacity and enables the company to meet increased demand for its expanding range of residential, fire and flood defence composite doors. Sales over the last year have been exceptionally strong and the company has recruited extra production staff to meet the needs of its expanding customer base.

01282 716611 www.system10aluminium.co.uk

enq.195

Comar accredited Secured by Design licence



Comar Architectural Aluminium Systems is delighted to have become a Secured by Design licence holder for its Comar 5P.i, Comar 9P.i and Comar 7 range of windows and doors. Established in 1989, 'Secured by Design' (SBD) is a police initiative to encourage the building industry to design out crime, assisting in reducing the opportunity for

crime and the fear of crime. Due to enhanced security options on its window and door systems, Comar offers the latest crime prevention features such as anti-snap and anti-bump locking systems. On points of attack stainless steel plates and protectors ensure that with prolonged abuse/attack entry is not attained.

020 8685 9685 www.comar-alu.co.uk

enq.197

P C Henderson's new digital brochures



P C Henderson has launched new range of digital brochures encompassing its entire product range of sliding and folding door hardware systems for domestic, commercial and industrial applications. Available to download from the website, customers can view each product with ease of functionality as pop up boxes and a fully interactive toolbar allow for effortless browsing. The brochures are also available as a web app (suitable for all tablets and smart phones). Providing

access to a comprehensive library of information, each brochure provides a detailed guide to all products, which are presented with inspiring installation images and full technical information.

0191 377 0701 www.pchenderson.com/brochures

enq.199

Timber door canopies by George Woods



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

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

enq.194

Swish windows and doors impress



Residents of Redrow's prestigious new housing development in Lytham St Annes are enjoying attractive and warm homes, thanks to **Swish Window and Door Systems**. Swish's 'A' rated casement windows were used for the family homes and villas in the development, while curtain walling was also used for the villas, plus

the apartments. Beck Brown coloured foils were utilised for the curtain wall and windows, in order to create a modern, aesthetically appealing finish. Some of the larger properties on the development also feature sliding patio doors, which adhere to Secured by Design specifications.

0808 178 3040 www.swishwindows.co.uk

enq.196

Love at firstsite for GEZE UK's sliding doors



GEZE UK has created a highly unusual, all-glass dual entrance for firstsite, a world-class contemporary visual arts organisation in Colchester. The golden crescent-shaped building has a spectacular front portico that rises to 11 metres high and uses full-height glazing.

Designing a bespoke multi-purpose entrance that would form part of this iconic glass façade, GEZE UK and glazing specialists FA Firman created a set of automatic sliding doors within a set of much larger manual swing doors. The entrance had to be as seamless as possible, minimise heat loss, yet be big enough to allow large sculptures and art exhibits to be transported in and out of the building as well as being easily accessible for all visitors.

enq.198

New brochure for Nordic Design Plus



A new brochure on **REHAU's** new Nordic Design Plus flush fitting window system gives fabricators, installers and specifiers the very latest information on the innovative system designed both for the new build sector and as a thermally efficient replacement for timber windows in cottages and stone built properties. Nordic Design Plus has a 120mm depth frame and a flush fitting 67mm sash, which gives it the appearance of a solid timber window, yet it is manufactured using REHAU's self reinforced RAU-

FIPRO® fibre composite material, which also gives it significantly improved strength, torsional stiffness and thermal properties.

enq.200

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ref: ADF

enq.203

Crittall windows for Iconic London landmark



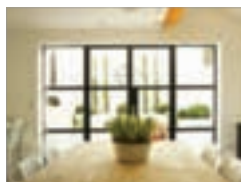
The Old Building at the prestigious School of Oriental and African Studies in London has a new appearance, thanks to a replacement window scheme involving Crittall Windows. Being Grade II listed, the upgrade specified like for like replacement – and in this case, this involved the removal of existing Crittall steel profiles from their decaying timber subframes and the installation of new high performance steel Corporate W20 units. The new Crittall windows serve a dual purpose;

maintaining the overall visual appearance of the architecture and significantly improving the thermal performance.

01376 530800 www.crittall-windows.co.uk

enq.204

SWA sees 'Belgium Doors' make comeback



As with the fashion world, architecture tends to be cyclical, with UK designers having revisited everything over the years. Steel windows have remained an enduring element to both domestic and commercial buildings – favoured for their slim sight-lines combined with rugged performance – though they too are subject to trends in

styles and application. Most recently members of the **Steel Window Association** have been reporting a resurgence in the popularity of steel framed entrance screens and partitions: normally featuring a pair of double doors flanked by fixed lights, and also referred to as Belgium Doors. These are most commonly installed as the outer door to a porch area, offering excellent weather protection.

enq.205

Renolit Exofol PX – the advanced exterior film



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. 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. In traditional formulations, plasticiser migration plays an important part in the degradation of the product. •Renolit Exofol PX utilises an acrylic specifically designed for this product, which contains more effective UV absorbers that do not suffer from the plasticiser migration. •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. Using an appropriate adhesive system the primer allows the processing of all Renolit Exofol films on one machine using the same adhesive.

01670 718122 www.renolit.com

enq.206

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enq.207

Yeoman Rainguard voted a winner



With over 20 years' experience and a passion for stunning architectural design, Sutton Coldfield based practice, Janes Architectural, has specified Yeoman Rainguard Rainwater Systems on many of its award winning projects. Simon Janes, from Janes Architectural

Practice, explained: "We first used Yeoman Rainguard seven years ago, as its products were the perfect solution for our projects, many of which are bespoke designed houses at the 'high end' of the market. We didn't want to fit standard, plastic rainwater goods and Yeoman Rainguard's XL Aluminium range really fitted the bill providing a high quality product with the traditional appearance required and good value for money."

enq.208

Kooltherm stars in Channel 4 restoration



Kingspan Insulation's Kooltherm and Therma ranges of products have taken a role in Channel 4's *Restoration Man* series, installed as part of a project to convert a Grade II listed church into a holiday home. The uninsulated roof and solid stone walls offered little protection against the cold. Over

600m² of Kingspan Insulation's premium performance Kooltherm products were installed. To insulate the church's roof, 50mm thick Kingspan Kooltherm K7 pitched roofboards were fitted over a sarking board, with a further 70mm installed underneath it. For the wall build-up, 42.5mm of Kingspan Kooltherm K18 insulated plasterboard was installed above the wall cill, with 62.5mm below it.

01544 387 384 www.kingspaninsulation.co.uk

enq.209



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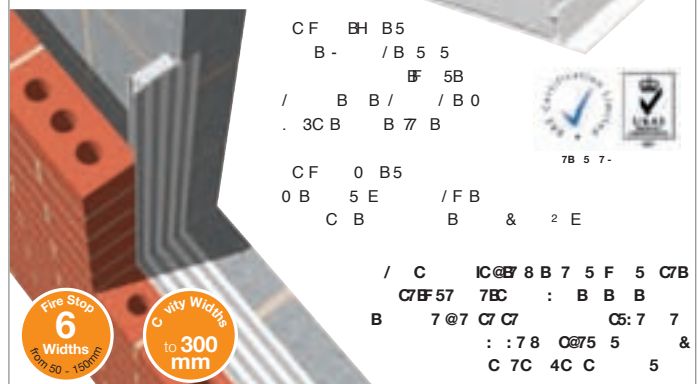
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enq.215

BB93's successor is finally here

By Michael Sellars, communications officer at CMS Danskin Acoustics Limited

There has been a lot of talk recently about the replacement for Section 1 of BB93, the constructional standards for acoustics for new school buildings. Unfortunately, the majority of this talk has taken place among acousticians, soundproofing specialists, building control officers and the Department of Education, but has yet to reach the ears of many architects. As the responsibility for specifying the necessary soundproofing and sound absorption materials to meet the new criteria is likely to fall squarely upon the shoulders of architects, we thought it would be worth dedicating a few paragraphs to the topic.

The word 'replacement' is probably a little misleading. The new regulations represent not so much a complete Gok Wan style makeover as a short back and sides. It, therefore, makes sense to revisit the original document before taking a look at the changes.



Out with the old

BB93 (or Building Bulletin 93, the Acoustic Design of Schools, to give it its full title) was conceived as a means of satisfying requirements E4 of Approved Document E of the Building Regulations with regards to sound insulation, reverberation times and indoor ambient noise in schools.

Broadly speaking, BB93 covers:

- Insulation from external noise
- Insulation between rooms through floors, walls and partitions
- Acoustic design of rooms for speech, music and for pupils with special hearing requirements.

The insulation aspect of BB93 deals exclusively with sound transmission and sets out clear standards for precisely how much noise might be allowed to penetrate a classroom or other learning environment. The acoustic design component of the regulations deals with the more complex issue of reverberation. Although distracting noise from external sources or adjoining rooms is problematic and must be addressed, reverberation is particularly detrimental to speech recognition and,

therefore, a crucial factor in learning.

Reverberation is simply the reflecting of sound energy from hard surfaces. These reflections reach the pupil's ear after the original sound and so have the effect of 'smearing' the teacher's words. The gap between the original sound and its echo is referred to as the Reverberation Time (RT). The greater the RT, the more smearing occurs and the less intelligible the teacher's words become. Sound absorbent materials are used to reduce the amount of reverberation. Dense or thick materials tend to be used to reduce sound transmission.

In with the new

So, precisely what was wrong with BB93? On the whole, nothing. That is, there were no flaws written into the regulations, nothing that could be strictly referred to as an error. It's just that the way in which schools were envisioned, designed and built back in 2003 is quite different from the way in which they are envisioned, designed and built now. These differences aren't dramatic but they are significant. Unlike much revised regulation, the new document is rather balanced, with some aspects being made more onerous and some less so.

Although there are many small amendments, there are four key changes:

1. The removal of reverberation data from the equation to calculate resistance to impact and airborne sound transmission. This is good news for anyone looking to control their budget as the previous equation factored in reverberation without taking into account the fact that said reverberation would be dealt with by the self-same regulations. This could easily result in over-engineered soundproofing measures, designed to combat a problem that would disappear once rooms were adequately treated with sound absorbent materials.
2. The reverberation time in sports halls has been relaxed from 1.5 seconds to 2 seconds, as it has been recognised that, although this is technically a learning environment, speech clarity is less of an educational factor. Again, the regulations as they stood were leading to over-engineered solutions.
3. A more onerous standard is now in place for open plan areas in recognition of the fact that more and more actual teaching is carried out in these areas.
4. Where pupils with Special Educational Needs are being taught, there is a requirement to treat a broader frequency range than just the mid-frequency that was covered in BB93. Research has demonstrated that low frequency noise creates difficulties for children with Special Educational Needs.

We've saved the worst until last, however. The new regulations have been given the concise and memorable title: Acoustic Performance Standards for the Priority Schools Building Programme including Technical Guidance Document TGD-021-5 Acoustic Performance in Schools.

Just be sure to take a deep breath before you say it out loud.



'The way in which schools were envisioned, designed and built back in 2003 is quite different from the way in which they are envisioned, designed and built now. These differences aren't dramatic but they are significant'

enq.216

Green acoustics in Greenland



The new Atuarfik Hans Lynge School, near Qinngorput in Greenland, displays environmentally sensitive specification by using natural materials both inside and out. A good example is the ceilings, which have been clad with **Troldekt** acoustic panels. These not only absorb sound in a

potentially very noisy environment but their rustic appearance complements the extensive use of wood and other natural materials in the school's very rural and rugged location. Danish manufactured Troldekt acoustic panels are made from 100 per cent natural wood fibres mixed with cement. Their benefits include high sound absorption, high durability, natural breathability, low cost life cycle performance and sustainability.

enq.217

Professional service fires the imagination



With the huge variety in styles, sizes and designs of stoves and fires available, architects and specifiers looking to find the right one for their project are being urged to make the most of a successful professional service offered by **BMF**.

Ben Freeman, co-owner at BMF, commented:

"Whether a designer is looking for a large format, balanced flue gas fire, a substantial wood burning stove or a pellet stove, we have a wealth of knowledge to help them make sure their plans fit the bill." 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.219

New Eliminator blitzes system debris



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 – both magnetic and non-magnetic – from a central heating system. Sentinel Eliminator

comprises an arrangement of four cyclones, which force clean water from the top of the filter and four strategically positioned magnets, which accelerate capture and retention of the magnetic debris. As well as eliminating all types of system debris, The Eliminator offers many additional benefits. It is easy to install with no specialist tools or complex o-ring arrangements required during installation.

01928 588330 www.sentinel-solutions.net

enq.218

Performance is everything, choose Samika



Manufacturer of innovative ventilation products, **Greenwood Airvac**, is pleased to announce the launch of Samika, the latest development in intermittent ventilation technology for kitchens and bathrooms. Designed for social housing, Samika introduces the unique and innovative concept of adaptive extraction. This means

Samika can be adapted at the point of installation for any application – wall, window, ducted in a ceiling – to enable it to meet Guaranteed Installed Performance (GIP) first time and assure Building Control sign-off. By focussing on GIP and adaptive extraction, Samika provides peace of mind that the ventilation installed performs as it should throughout its operational lifetime.

enq.220



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enq.221



Double win at National Heat Pump Awards

The 3rd National Heat Pump Awards held at the ICC Birmingham, on Thursday 16 May proved to be a crowning-moment for **Space Air Solutions**. Under the category, Product Innovation – Ancillary Product; Space Air's unique Daikin Altherma Accessory Kits won the main award. Space Air has been designing and manufacturing ancillary components, to fully optimise the efficiency of Daikin systems, for over 32 years. Double winner, Space Air was also presented with the special 'Recognised for Excellence' Award for 'Energy Monitoring'. Neil Afram, MD Space Air, commented: "Every Space Air supplied Daikin Altherma system comes complete with a consumer watt meter to monitor the system's energy consumption and provide readings, which are also taken at time of annual maintenance. As each system is also provided with the Daikin Altherma accessory kit, the actual readings when compared to the original predictions are often outperformed."

01483 252 252 www.spacealtherma.co.uk

enq.222

New intelligent heat recovery with Vireo



Greenwood Airvac announces the launch of Vireo – the next generation of intelligent heat recovery ventilation. Designed and manufactured in the UK, Vireo is all about Guaranteed Installed Performance (GIP) and has housing

provider and tenant satisfaction high on its agenda. The result is an easier, better and smarter application of heat recovery ventilation in new homes, with the correct ventilation being installed from the outset to Building Regulation requirements. Loaded with additional Greenwood Apps, Vireo continues to assist in the delivery of GIP beyond the installation stage and throughout the lifetime of the product. Working intuitively with the installed environment, Vireo requires no adjustment from tenants, ensuring optimal performance and maximum energy efficiency at all times.

enq.223

Energy efficient wood pellet boilers from Grant



Grant UK has been designing and manufacturing reliable, high quality, easy to install heating products for more than 35 years. Perhaps best known for its award winning oil fired condensing boilers, Grant UK has expanded its business very successfully into the new world of renewable heating technologies, offering the most efficient air source heat pumps, a sector leading eco efficient solar thermal system as well as the Spira Wood

Pellet boilers – all in a range of sizes that would complement virtually any UK residence. The MCS approved Grant Spira Condensing Wood Pellet boilers are available in outputs of 6kW up to 72kW and deliver efficiencies up to 97.4 per cent.

01380 736 920 www.grantuk.com

enq.225

Double award win for Stelrad's Radical



A leading radiator manufacturer, Stelrad Radiators, is celebrating winning not one but two impressive accolades in two weeks, both relating to its impressive new energy saving serial feed radiator, the Radical! The first award it won was in the national H&V News Awards 2013 And its second award was in the Greenbuild Awards 2013 as well. Along with

the many product and installation benefits it offers, the Radical Radiator is fully assessed by KIWA as offering a 10.5 per cent energy saving over traditional radiators, and it performs equally well with both traditional boiler driven and renewable heating systems.

0870 849 8056 www.stelrad.com

enq.224


Air curtain collaboration at Drapers Gardens




Air curtain specialist, JS Air Curtains, and entrance specialist, Blue Chyp, have recently supplied and installed four revolving door air curtains at Drapers Garden office complex in the City of London. Constant use of the doors was creating severe draughts through the foyer and causing discomfort. Believing air curtains could be the solution, Blue Chyp turned to JS

Air Curtains. The company's Rotowind range was designed to meet the specific conditions of a revolving door, which can act as a low-speed fan, forcing a mass of cold air into a room with each rotation. By combining a Rotowind with a revolving door system, cold air is prevented from entering.

enq.226





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enq.227



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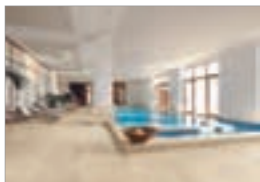
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enq.228

Technical tiles inspired by nature



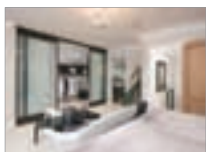
Solus Ceramics introduces the exciting Fissure range, an innovative series of porcelain tiles that has been developed with revolutionary technology to mimic the natural beauty and texture of stone. The result is a new stone-effect product with technical properties and the aesthetic variations seen in natural stone. Fissure is available

in four versatile sizes including 600x600mm, 300x600mm, a super large format 600x1,200mm and a plank shaped 200x1,200mm variation. The range centres around four main colours including black, grey, white and beige. Each colour is also available in a lined crosscut option or a more abstract vein cut alternative.

0121 753 0777 www.solusceramics.com

enq.229

Walk-in to a celebrity lifestyle with Draks



Type 'celebrity walk-in wardrobes' into Google and around 23,600,000 results are revealed. The Wall Street Journal reports on the \$100,000 closet and how "what was once a humble storage space is becoming a trophy accessory". Draks has three walk-in wardrobe solutions: the Oxford, Duo and Skyline. The Oxford

provides a fully lined bespoke interior, is available in a range of colours and can be adapted to suit nearly any interior design and requirement. System Duo allows the creation of a wide variety of furniture. Its modular structure means the entire room height may be used with a complete range of suspended shelves and accessories. Meanwhile, the cutting-edge Skyline free floating walk-in wardrobe system is mounted off the floor and is visually stunning.

enq.231

JB Kind advise vigilance when buying fire doors



A number of customers have contacted JB Kind, concerned about the validity of fire doors purchased from other door suppliers, where the certification supplied has been for an entirely different door. There seems to be confusion as to the standards that a fire door should reach and how to check they have been met. Specifications may require the door to be a different size, perhaps with glazing or ironmongery that is not as tested. These variations can only be

allowed if covered by an Assessment report issued by the approving body and JB Kind advises to request a copy as a matter of course.

01283 554197 www.jbkind.com

enq.230

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enq.232




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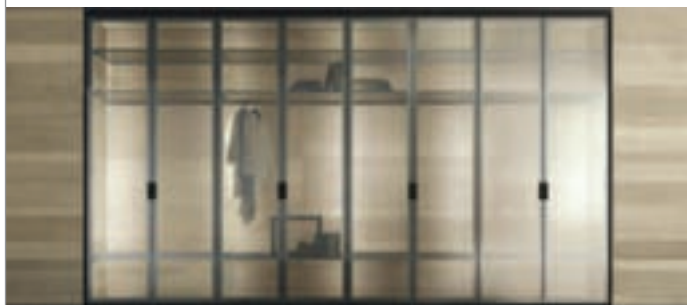
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Molteni & C, B&B Italia, Lago. For an extensive 'product search' and to download PDF catalogues, visit the Domain website.

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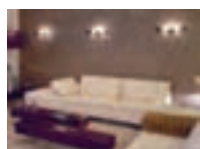
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Osmo receives positive feedback



A recent customer survey carried out by Osmo UK has provided some insightful statistics that indicate a high level of satisfaction towards the company and its products. Osmo conducted the survey to gain a greater understanding of how its customers perceive its service, product quality and pricing. The survey revealed that over 85 per cent believe Osmo products to be of better quality than its competitors, along

with 72.5 per cent of customers thinking that the range is as reasonably priced, if not more so, than similar products on the market. These reasons contributed to 97 per cent of participants agreeing that they would be likely to recommend Osmo products to people they know.

enq.238

Laminate helps transform stunning interior



The Vault is a stunning new Data Centre in Bootle near Liverpool offering data colocation and workplace solutions. Transition into one of the most modern data facilities in the north-west, the doors, cubicles and conference room desks have all been clad with 'Stars' laminate from Abet Laminati.

Supplied by Plastics & Veneers Liverpool, hundreds of sheets of Stars laminate were used throughout the building to complement the ultra-modern feel and appearance of the interior. Stars is a range of six metallic speckles with a Lucida or Mandarin finish. The sheets are imbued with photosensitive particles, which catch the light and shimmer to create a stunning visual effect, coupled with an easy to clean and highly durable surface.

enq.239

Changing Places made easy



New Building Regulations are causing confusion for many specifiers, which can be clarified with new guidance from Clos-o-Mat. Under Building Regulations Approved Document M 2013 Access To & Use of Buildings, toilet accommodation needs to be suitable not only for disabled people, but for all people who use the building. Further, it is 'desirable' to include an enlarged unisex toilet incorporating an adult sized changing bench – a hygiene room or Changing Places toilet. To help ensure compliance, Clos-o-Mat, a leading UK supplier of disabled toileting solutions, has produced an informative white paper: *Considerations & Specification of Changing Places Accessible Toilets*. "Judging from the emails and telephone calls we are receiving, a huge number of people aren't fully aware of what these new requirements/desires are, and how they should be implemented," elaborates Clos-o-Mat marketing manager Robin Tuffley. "They are turning to us for help, knowing we have been involved in the large proportion of hygiene rooms/Changing Places toilets already successfully installed. We have pooled that knowledge into the white paper, to give them a valuable, easy-to-access resource, to make their job easier." The white paper covers all requirements for compliance in one place, and can be downloaded direct from Clos-o-Mat's website.

enq.240

Stylish column casings from Encasement for Salford's Media City



Stylish column casings from Encasement's Circa range are being used to conceal structural columns and provide an integrated contemporary finish within the Pie Factory building at the innovative Media City development in Salford. Located at Salford Quays, Media City is one of Europe's most dynamic mixed use developments combining workspace, residential and retail, as well as one some of the world's most advanced HD broadcast studios and multi-media and production facilities, which are used extensively by the BBC and ITV. To meet the demands for a contemporary design and high quality finish that integrates with the building's décor, Encasement was chosen by the interior designers to supply and install a series of unique circular column casings, which are finished in durable polar white Formica laminate. Each 750mm diameter column casing stands 3,000mm high and is made up from 16 separate 'quartered' segments, which are secured to the structural column and connected by brushed stainless steel laminate feature joints. Matching brushed stainless steel header and skirting collars are also installed, which add to the stylish finish. Encasement's managing director, Martin Taylor, explained: "Media City is an outstanding development and although we have supplied and installed casing solutions to a diverse range of other prestigious projects, the meticulous finish and attention to detail demanded for these columns are particularly satisfying."

enq.241

Design make-over for team showers



Horne Engineering Ltd, expert in temperature controls since 1909 and designer of the Building Better Healthcare award-winning Optitherm thermostatic tap, is delighted to introduce the strikingly designed Dušo shower column – a 'group' shower for school, team sport and other recreational facilities. The arresting design of the Dušo is a complete departure from other currently available group showers. Its slender form with distinctive head, smooth silvery surface and flashes of colour and chrome easily complements a wide array of colour palettes and interior design styles. Colour options include aqua blue, bright yellow, grey and black. Primarily designed for installations featuring a group of shower outlets supplied with pre-blended warm water from an upstream group thermostatic mixing valve (TMV), the Dušo column is as practical as it is aesthetically appealing: •Robust and durable, •60 second flow duration as standard (to enhance user experience), •Large spray plate and easy-clean nozzle array with two position settings, •Includes water saving flow regulator, •Push paddle and spray plate available in four colours for aesthetics and /or as practical indicators, •Extremely easy to install, clean and maintain. The aesthetic design and practical functionality of the Dušo is fully explained and demonstrated in a narrated animation on the website.

01505 321455 www.horne.co.uk/Products/Duso

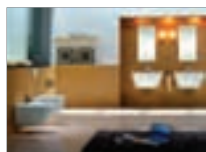
enq.242

Rada is preferred washroom supplier for Asda



Rada, the expert in commercial showering and washroom controls, has become a preferred supplier for Asda. Rada's T4 120 timed flow mixer tap has been installed at a number of Asda superstores across the UK due to the product's reliability, durability and safety. Combining a stylish yet contemporary finish, the T4 range enhances the appearance of any washroom, and its easily adjustable flow and time settings allow for significant water and energy savings. The leading manufacturer's washroom controls meet Asda's quality demands in terms of architectural specification, product performance, supply and economy. Fully WRAS approved, Rada's timed flow control range also includes an all-in-one cartridge for easy servicing and maintenance. **enq.243**

Abacus Direct keeps it simple



Specialist manufacturer and distributor of bathroom products, Abacus Direct Ltd, has revealed its latest complete bathroom solution from renowned fashion and homewares designer Ben de Lisi. 'Simple' is an elegant range of sanitaryware that offers effortless chic and streamlined design with Nano Tech easy clean coating and a choice of products, including a wall hung basin, back to wall and wall hung WCs and wall hung bidet. For the ultimate in hygiene and easy cleaning, the ceramic collection is coated with transparent Nano particles, which provide excellent water/dust repellent and anti-bacterial properties. The range forms part of a brand new collection for 2013 with baths, shower screens, shelves, towel rails, mirrors and furniture. **enq.244**

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enq.246

Waterproof shower under-tile by Marmox



Ten Pilates have just opened a new studio in Hatton Garden. To maintain their high standards they instructed main contractor Boxx Projects to design and install five new shower cubicles, two for male users and three for female. Boxx's plan for the new cubicles naturally started with basics – a means of providing a fully waterproof under-tile layer with high thermal insulation. Lightweight, easily handled **Marmox** Showerlay sheets perfectly answered these criteria and also offered ample strength to support the

heaviest of floor tiles. Showerlay is manufactured with a polystyrene core and a double-reinforced surface compatible with all major tile adhesives.

01634 835290 www.marmox.co.uk

enq.247

Tarkett and the ultimate flooring solution



Mater Misericordiae University Hospital in Dublin has been renovated with more than seven different types of **Tarkett** flooring. Sisk Group and project manager Pat Tierney said: "Tarkett flooring was initially chosen for the project due to the commercial benefits it offered. From start to finish

the customer service and technical support we received from the company was excellent. I would definitely recommend using Tarkett again." Tarkett iQ Toro SC flooring was used in the 12 new operating theatres due to its static dissipative properties. The flooring is made specifically for use in areas that need to remain free from static electricity and as well as being 100 per cent recyclable, it boasts the best life cycle costs on the market.

enq.248

Oceanarium snaps up Tarkett flooring



The hard-wearing properties of **Tarkett** flooring has seen it snapped up and used in the redevelopment of one of Bournemouth's biggest and busiest tourist attractions. The Bournemouth Oceanarium, which includes a popular Amazon area complete with piranhas, has now reopened with 360m² of new Tarkett flooring laid throughout. Since its opening in 2008 the Oceanarium has received in excess of 1.5 million visitors. The Oceanarium chose local contractor, Bainton Flooring to supply and fit the flooring. Gareth Brunson, contracts manager with Bainton Flooring, said: "When the flooring was originally laid in 2008 it came from a mixture of manufactures. Due to being close to the seafront and all the sand that was being brought in, the floor was quickly wearing away in all areas, except where we had previously laid Tarkett flooring. This made Tarkett the obvious choice when selecting the new flooring, so we've laid it throughout." The flooring selected was from Tarkett's Luxury Vinyl Tile iD Inspiration 70. It was laid in all areas except the kitchens and servery where Tarkett's Safetred flooring was preferred due to its sustainable slip resistant properties. Luxury Vinyl Tile iD Inspiration 70 has a 0.7mm pure PVC transparent wear layer, making it exceptionally hardwearing, indentation resistant and resilient against scratches, scuffs, soiling and staining.

01622 854040 www.tarkett.co.uk

enq.249



New range from Ted Todd

Ted Todd has introduced a new 20mm engineered range. Strada matches the highest quality 20mm engineered FSC[®] certified European Oak boards with the exacting standards demanded by the best flooring specifiers. Pre-finished with a unique twelve coat lacquer finish, this range is extremely durable and easy to maintain, it will stand up to the most demanding of projects.

Available in a choice of ten stunning colours ranging from cool, crisp whites and greys, through the rich tones of nature's finest palette to a contemporary gun metal grey and unique dual tone black.

Strada is available from stock, suitable for installation over underfloor heating and will make a stunning and enduring addition to any interior.

01925 283 000 www.tedtodd.co.uk

enq.250

Beauty make-over treatment from Remmers



The Beauty Shop in Huddersfield required an upgrade to the flooring of the ground-floor treatment and tanning rooms. Although the existing floor was still in relatively good condition, the Salon required a change to the original colour scheme and selected a two coloured **Remmers** Colorid Flake system to be installed throughout. The

revamp also required a corresponding darker floor to be installed in the tanning room due to the nature of the treatments. All of the floor areas were initially prepared; base coated with Epoxy BS3000 and then flaked with Colorid. All areas were then sealed with Epoxy UV 100 and two coats of Remmers PUR Aqua Top M to create the specified colours and design.

0845 373 0103 www.remmers.co.uk

enq.251

Heckmondwike's carpet scores a hole in one



A Country Club in Hertfordshire has experienced a surge in wedding bookings and an increased uptake in golf memberships after a stylish new carpet from **Heckmondwike** was installed as part of a complete renovation. Following a re-design of the golf facilities at Bushey Country Club, 152m²

of Sticks & Stones Fibre Bonded carpet was specified by ID-Architecture in Charcoal to provide an attractive yet durable flooring solution. Sticks & Stones is widely specified for leisure facilities because it is renowned for its durability and its ability to protect carpets by intercepting dirt and moisture trodden in from outside. The golf club will also benefit from the robust construction of fibre bonded carpet, which will not ravel or fray.

enq.252

Egger launches solution for loft spaces

Wood panel manufacturer Egger UK has launched a new range of decorative floor panels specifically designed to make boarding out loft and attic spaces a simple job for DIY enthusiasts.

Egger Decorative Protect Loft Panels are easy to fit and feature an attractive decorative oak wood-grain finish. They are manufactured to a P5 grade making them moisture resistant and structural and they also provide the opportunity to span up to 600mm between joist centres.

The panels are simple to install, hard wearing, and the unique decorative oak-effect finish means no additional floor covering such as carpet or vinyl is required, which also offers the benefit of saving on project costs and installation time.

Previously, boarding out lofts and attic spaces was usually limited to a non-structural raw 18mm P4 grade tongue and groove panel, which cannot be walked on and only spans up to 400mm joist centres.

Egger's specification manager Daniel Clarke said: "Increasingly, households are seeking to add value and create

more usable space within the home by converting loft, attic or utility spaces as a cost effective alternative to moving house.

"Our new Decorative Protect Loft Panels have been designed to add value to the home by offering an attractive, simple solution, which is both durable and versatile so it will fit through standard domestic loft hatches."



The panel sizes are 1,200 x 350 in a 22mm thickness, which will cover a maximum span of up to 600mm centres, three panels are supplied per pack for easy transportation and lifting and will cover approximately 1.26m².

Each panel has a precision tongue and grooved interlocking profile on the two long sides of the board to make panel installation quicker and

easier when used in conjunction with Egger's D3 Adhesive. Step-by-step fitting instructions are supplied with every pack.

Egger Decorative Protect Loft Panels are also suitable for use in structural applications when used in conjunction with structural floor timber or I Joist. This makes them ideal for use in a variety of settings such as cloakrooms, conservatories, utility rooms and garden buildings.

enq.253



0845 602 4444
building.uk@egger.com
www.egger.co.uk




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

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


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

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

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Partnership pays

Ian Bailey, managing director of Bailey Artform, specialists in design-led street furniture, talks about the need for architects and suppliers to work in partnership to overcome the challenges of the current economic climate

All around the globe people are on the move more than ever and, for cities and large towns in particular, the issue of how to manage people in motion is increasingly challenging. The physical environment plays an important role in enhancing people's experiences and, ultimately, their quality of life. In order to balance all the environmental, health, safety and comfort needs, we need to create urban centres and public streetscapes that offer comfortable, high quality facilities and amenities that make public transport, walking and biking as stress-free as possible.

As a result, the expectation for architects to create impressive yet practical public spaces has never been higher. Design-led street furniture that complements the environment in which it is installed can play a key contributory role in helping specifiers to meet this challenge. Quality street furniture can help to both transform a public space and town centre by making it more attractive, adding character and creating footfall. It can also facilitate a sense of safety and protection, ultimately helping to build community and imbue a sense of pride.

Yet with the current economic climate forcing budget cuts across the board, architects' specifications are increasingly being overwritten by contractors looking to squeeze costs. Design and aesthetic value have become a low priority and sustainability, once higher on the agenda, appears to have gone out the window with little consideration given to whether products are ethically sourced or environmentally friendly. In order to satisfy diminishing budgets, hardwood is being replaced by softwood in the manufacture of seating and the use of lower grade stainless steel in bollards and seats is now commonplace, even in aggressive environments such as coastal and heavy industrial areas. Surface finishes are also being downgraded with the omission of hot dip galvanising on steel products and the lowering of paint and powder coating specification on litter bins and planters.

While contractors changing specifications is nothing new, they appear to be more in control of design and build projects.

But downgrading specifications to meet short-term budgetary requirements is inevitably destined to lead to long-term problems as cheaper products nearly always result in inferior quality and, as a result, diminished longevity. The time bomb is ticking and when it finally explodes, in the not too distant future, it is likely to leave a host of problems in its wake.



The problem is that what contractors consider a 'like for like' change in specification is, in reality, often worlds apart in terms of quality. True value engineering should provide customers with real value, not just a lower priced product – and only true product experts really understand where value engineering stops and a product becomes a simple commodity. With so many suppliers happy to compromise on quality in order to secure orders, it is easy to understand how confusion can arise and contractors' heads can be easily turned.

To overcome this issue architects need to work in partnership with street furniture manufacturers and suppliers who are true specialists in this product arena and who have a proven ability to provide a long-term, after-sales service and product warranties. Such partners will work alongside the architect to help manage the entire project life cycle, including the initial specification through to design and development stages and into project completion. They will provide professional advice and input at every stage and have the in depth product knowledge that will enable the specifier to respond to budget reductions if necessary. This may be suggesting either slight modifications in design or proposing alternative products that are fit for purpose and will not compromise long-term longevity requirements.

To help specifiers further, street furniture suppliers need to

Continued on page 65...

'Architects need to work in partnership with street furniture manufacturers and suppliers who are true specialists in this product arena and who have a proven ability to provide a long-term, after-sales service and product warranties'



FACTA publishes information sheet



FACTA (The Fabricated Access Covers Trade Association) has published a fact sheet on the forthcoming Construction Products Regulation (CPR), which comes into force on the 1 July 2013.

As from then, it will become a legal requirement for any construction product manufactured under the scope of a harmonised European standard (hEN) to be CE marked in accordance with the CPR and failure to comply will be a criminal offence. It is also illegal to falsely CE mark products that are not covered by an appropriate hEN. The fact sheet explains, in simple terms, how the CPR applies to man-hole covers, access covers and gully tops, highlighting the relevant standards.

01827 52337 www.facta.org.uk

enq.260

Craven Dunnill Jackfield

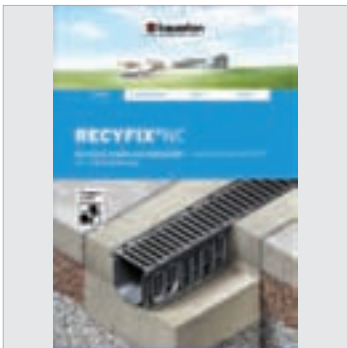


UK specialist tile manufacturer **Craven Dunnill Jackfield**, which created two vast art installations for the Olympic Park, has won a national TTA award for its Olympic inspired tile mural at Much Wenlock Public Art Trail. The double-sided tile mural wall features a section of the vast Brick Field installation,

by artist Clare Woods, which was one of two murals built by Jackfield for the London Olympics. Having developed the necessary techniques to handle such epic commissions, Craven Dunnill Jackfield is now actively collaborating on further tile mural projects, both at home and overseas.

enq.261

New RECYFIX® NC Category Class E600 drainage channels



Hauraton has introduced a new surface water drainage channel designed specifically for civil engineering projects such as industrial yards, street delivery bays, fuel stations and car parks where goods vehicles may have access.

The RECYFIX® NC channels are economically designed yet provide reliable performance, being suitable for load capacities up to Category Class E600.

The new channels are made from tough, 100 per cent recycled Polyethylene-Polypropylene (PE-PP) and offered eight sizes with the largest channel only weighing 20.9kg per one metre unit, including its 10mm slotted ductile iron grating, which is securely held in position with eight high tensile bolts.

As with all Hauraton surface water drainage channels, the performance of the new range complies with European Standards (hENs) and carries the CE mark.

The RECYFIX® NC catalogue, showing sizing and installation details, is available digitally on the website:

01582 501 380 www.hauraton.co.uk

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enq.263



Berry Systems protects British exports

Associated British Ports has developed over 80ha of dedicated vehicle storage and distribution compounds. The facilities include four multi-deck vehicle terminals, the most recent of which was constructed by Morgan Sindall who selected a wire rope solution from **Berry Systems** for the perimeter protection. The standard Berry Brisafe system consists of three tensioned wire ropes running through a mesh panel that provides an integrated anti-climb feature and pedestrian handrail. However, the particular usage at Southampton meant that the anti-climb mesh and handrail was not required as there is no public or general pedestrian access. So a combination of five and six wire systems were developed, employing four low level wires at a typical vehicle impact height and to cater for the varying range of vehicle sizes encountered.

01902 491100 www.berrysystems.co.uk

enq.264

ensure that they are fully in tune with the full spectrum of architects' requirements. Through constant investment in research and development, they must be able to offer a wide range of continually evolving design-led products that will fuel specifiers' creative desires and provide innovative solutions. Careful consideration must be given to factors such as ease of installation, product performance, environmental requirements and long-term maintenance costs. Only by addressing all of these issues will suppliers be able to prove that they are providing clients with real and actual value.

The government's Building Information Modelling (BIM) initiative, which sets out a collaborative way of working, underpinned by digital technology that can be used for effective management of information throughout a project life cycle, will undoubtedly play a key role in helping to ensure clarity and transparency of the specification process. Until this initiative is fully implemented, however, the onus lies with manufacturers and suppliers to provide specifiers with evidence of proven expertise and experience that will help 'sort the wheat from the chaff'.

The external environment is set to play an increasingly important role in enhancing our everyday experiences, particularly as the world in which we live continues to evolve at such a rapid pace. By specifiers and suppliers working together in partnership we will be better equipped to meet the challenges of the current stressed economy, while simultaneously ensuring that we benefit from lasting products that will both complement our urban architecture and improve our quality of life.



'By specifiers and suppliers working together [...] we will be better equipped to meet the challenges of the current stressed economy'

enq.265



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Permitted paving



Recent planning Permitted Development rule changes aim to apply sustainable drainage (SuDS) to new or replacement paving around various non-domestic buildings as well as existing homes as part of the fight against flooding. New guidance from **Interpave** has been published to help professionals to interpret them. Before the changes, paving anywhere in a garden related to a house or bungalow, or within industrial, warehouse, office and shop premises, with any materials was considered to be a Permitted Development. But not any more. As awareness of the restrictions grows, there are calls for the legality of recent paving to be covered in conveyancing pre-contract enquiries, home-buyers' reports and valuations.

0116 253 6161 www.paving.org.uk

enq.267

Picture-perfect presentation for Rollalong



Rollalong has presented Aspire Defence with a specially commissioned watercolour depicting one of their landmark buildings, The Government House Annexe in Aldershot, which was completed in April 2012 using Rollalong's off-site manufactured modules. The painting, created by B E Sayers

was given in recognition of Aspire's successful partnership with Rollalong during the six years of Project Allenby/Connaught, which seeks to improve soldiers' lives through modern, purpose built accommodation. Martin Sayers, managing director of Rollalong, commented, "Aspire's influence has served to enhance professionalism within Rollalong and has helped us to achieve an exemplary record in terms of product quality and safety".

enq.269

Denso overbanding tape for station platform



Gary Fletcher (Surfacing) Ltd of Dronfield, Derbyshire, has recently completed a refurbishment contract at the rural Hope Railway Station. Following trenching work on the raised platforms it included repairs to tarmac surfacing. Following application of

Denso Ltd's Denso Overbanding Tape was applied in order to bond new asphalt areas to old. The Overbanding Tape was also applied where new asphalt areas meet the concrete platform edge sections. Denso Overbanding Tape is a cold applied polymer modified bituminous tape for surface sealing of open seams or cracks up to 5mm width in road pavements.

02086707511 www.denso.net

enq.268

SuDS toolbox for surface water treatment



Hydro International is launching The Hydro StormTrain™ series, a comprehensive toolbox of surface water treatment devices in anticipation of the growing need to remove silts, sediments and other pollutants from stormwater runoff. Through the Hydro StormTrain™ series, Hydro is providing an unrivalled range

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Carbon monoxide – latest guidance



Kidde Fyrnetics has launched its guide to carbon monoxide safety in housing – updated with details of brand new models to the TenYCO range of 10-year guaranteed CO alarms – at the 2013 Gas Safety Management Conference. This CORGI organised event is the inaugural Conference for the Association of Gas Safety Managers (AGSM) and the first National Inter Authority Gas Forum. Kidde Fyrnetics – a sponsor of the conference – launched its guide to carbon monoxide at the event. The guide covers sources and dangers

of carbon monoxide in homes, Building Regulations and other requirements for CO alarms, specification and installation – including correct locations.

01753 685 148 www.TenYCO.kiddefyrnetics.co.uk

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