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Sometimes a site appears so complex that one wonders if it is destined never to be developed at all. The 3, Church Road site in Ealing, appeared to be just such a proposition until Autor Architecture got hold of it, reports Michael Willoughby

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Publisher/Editor
Simon Reed

Deputy Editor
Gabrielle Vinyard
gabrielle@netmagmedia.eu

**Editorial &
Production Assistants**
Sue Benson
Mikey Pooley

Contributors
Steve Menary
Ray Philpott

Sales Director
Lesley Mayo

Advertisement Manager
Anthony Parker
anthony@netmagmedia.eu

Sales Executives
Suzanne Easter
Ian Fletcher
Kim Friend
Steve Smith

**Circulation/Reader
Enquiry Service**
Jane Spice



netMAGmedia Ltd
Cointronic House
Station Road, Heathfield
East Sussex, TN21 8DF

**Advertising &
Administration**
t 01435 863500
f 01435 863897
info@netmagmedia.eu
www.architectsdatafile.co.uk

Press Releases
editorial@netmagmedia.eu



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National architects take lead design role on £6 million new school

Nottingham architects CPMG have been selected to design a new state of the art secondary school in a contract worth £6 million.

Planning has been granted for a 350 pupil school to be built on land at the Lakeside site in Doncaster which will be open in September this year. This central location was chosen by the XP School as it wanted to be in a substantial catchment area and this location enables a large number of potential pupils to walk from home.

XP School aims aim is to involve

students in project based learning to provide them with opportunities for developing an ethic of excellence by creating beautiful and meaningful pieces of work.

The design of the building is unique as it can be separated into three areas split by two circulation foot routes – an administration and library area, a central core teaching area and teaching wing. Outside features include stepped grass seating for outdoor drama performances and a paved teaching area for design and technology lessons.

FESTIVAL OF ARCHITECTURE

London Festival of Architecture 2015: Call to participate

The London Festival of Architecture (LFA) is calling for participants to explore and engage with the changing landscape of London through this year's central theme, 'Work in Progress'.

In response to the growing international leading role played by London, LFA is expanding its international programme for 2015. This will centre on a number of key events, including Spanish architects SelgasCano's design for the Serpentine's 15th annual pavilion; an international conference marking the 50th anniversary of the Commonwealth Association of Architects (CAA) and hosted by the Royal Institute of British Architects (RIBA); and the introduction of an international Focus Country.

Returning for 2015, the much anticipated Headline Talks programme will be hosted by leading institutions such as the Royal Academy of Arts and RIBA; London's leading architectural universities will present their degree shows, offering an overview of our future generation of architectural talent, and RIBA London's tremendously popular Open Studios programme will also be back, running across the capital during the month of June.

UP AND COMING DESIGNERS

70 ones to watch

Design Council has announced its 70 ones to watch — 70 of the most exciting up-and-coming designers in the UK who together represent the future of British design.

Showcased as part of Design Council's 70th anniversary celebrations, the designers — each chosen for an individual product or project of outstanding design ingenuity and vision — have been selected from hundreds of entrants. The huge range of submissions covered design disciplines from furniture design, architecture and jewellery design, to material experimentation and app development. Bound together by the

common theme of designing for the future, and many of them designing to improve people's lives, they reflect the values that Design Council has stood by throughout its 70-year history.

The selected line up can be broadly divided into six categories; Everyday living, Design for health and wellbeing, Materiality, Design for social impact, Future of city living and Rethinking reality. For more information, please visit www.architectsdatafile.co.uk and enter reference number 48477.

DEVELOPMENT

Atkins to design landmark supertall development in China

Atkins has been awarded a contract to design the centrepiece for a new expansion project in Changsha, in the province of Hunan in China.

Changsha Northstar Real Estate Development Company will be developing the Northstar Delta site to create a new landmark – Northstar Changsha Centre – on behalf of the government for the city of Changsha, and has appointed Atkins to provide architecture design services for this development.

The Centre will integrate residential, cultural, retail and commercial space of the riverside area to create a central public space for activities. This will include a supertall 400m landmark office tower, regional convention centre, department stores, a five-star hotel and serviced apartments. The project will cover a floor area of 406,000 sq m.

Ian Milne, Atkins' senior design director, said: "Our design ambition is to create a spectacular centrepiece to this important new urban quarter. Connectivity is a major concept in our design and we want to connect not only places, but people. The civic plaza will be located between the proposed iconic landmark tower and convention centre and will be an ideal meeting point due to its convenient location, plus the wide range of cultural and recreational activities that can be staged there."

Based on existing road planning, the development has been designed to be very pedestrian friendly, and a major civic plaza will connect the buildings with a network of elevated walkways. Vertical recesses running up the sides of the towers will make them look more slender and the tops of the towers are 'stepped' to add differentiation to the overall shape, ensuring the towers will create a dramatic and unified group on the city's skyline.

Sustainability is another focus for the project, and the convention centre in particular will set new standards in passive energy efficiency due to its careful orientation and sophisticated roof design. Rows of large skylights orientated to the north will bring diffused light into the halls and foyers below, utilising natural light effectively.

The Changsha Centre project is a key example of how Atkins' integrated solutions are supporting clients in achieving sustainable urban development and creating public spaces that promote people's health, happiness and wellbeing. Located in central China, Changsha is one of China's most economically advanced cities and is an important commercial and industrial hub.



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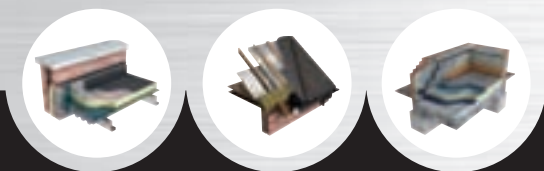
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INSULATION EXCELLENCE

SURFACE DESIGN AWARDS 2015

Chapel unveiled as Supreme Winner at Surface Design Awards 2015



The stunning Ospedale Giovanni XXIII Chapel in Italy has been unveiled as the Supreme Winner at the Surface Design Awards 2015. Designed by Traversi + Traversi Architetti & Aymeric Zublena, the radical design of the uniquely modern chapel created surfaces that were integral to the building and the atmosphere that encompasses it. The chapel was praised by the panel of esteemed judges for its beautiful surfaces that created the perfect spiritual environment for contemplation and meditation. It was also noted as being 'simply stunning'. The Supreme Award is sponsored by RAK Ceramics.

The Surface Design Awards recognise examples of progressive design and the use of innovative surfaces in projects both in the UK and internationally. This year 40 per cent of the finalists were projects from outside the UK covering 11 different countries. The highly respected Awards launched in 2013 and have grown both in stature and number of entries. Surface Design Awards 2015 saw an unprecedented number of entries, totalling over 180 – an increase of 62 per cent from 2014.

The Awards were divided into six categories with most categories divided into an exterior and interior section. Each project was judged on a number of criteria which included inventive use of materials and design aesthetics.

The panel of judges had the difficult task of selecting the finalists in each category, each of which was filled with distinctive and exciting projects from across the globe. The range of projects submitted across the categories were both inspiring and thought provoking, rousing a lively discussion between the judging panel, which consisted of Sarah Featherstone of Featherstone Young, Theresa Dowling of FX Magazine, Nicola Osborn of MoreySmith, Adam Richards of Adam Richards Architects, Annalie Riches of Mikhail Riches,

Maria Smith of Studio Weave, Ralph Courtenay of Jonathan Dunn Architects and Sharon Stammers and Martin Lupton of Light Collective.

The judges said: "The wide variety of surfaces was both stimulating and exciting to judge. We had a fantastic time looking through the entries and after much discussion, we are confident that we have selected a terrific range of international and UK projects that represent the innovative use of surfaces in design".

The Winners of each category are listed below:

- **Commercial Exterior Surface (Sponsored by Burlington Stone):** For Eloise – Robert Dawson
- **Commercial Interior Surface (Sponsored by Burlington Stone):** The Buckley Building – Buckley Gray Yeoman
- **Housing Exterior Surface (Sponsored by Levantina):** Kew House – Piercy & Company
- **Housing Interior Surface (Sponsored by Levantina):** Cascade House – Patalab Architecture
- **Light & Surface Exterior (Sponsored by Decolan):** The Arts Space – Hewitt Studios
- **Light & Surface Interior (Sponsored by Decolan):** Innovation Corridor – AK Design, Dubai
- **Public Building Exterior Surface (Sponsored by James Latham):** Techno Prisme Storage Depot – Brisac Gonzalez Architects
- **Public Building Interior Surface (Sponsored by James Latham):** Ospedale Giovanni XXIII Chapel – Traversi + Traversi Architetti & Aymeric Zublena
- **Retail Interior Surface (Sponsored by The Stone Library):** Butlers Chocolate Café, T1 – Giles Miller Studio
- **Temporary Structure (Sponsored by Design Exchange):** Box 459 – Andy Ramus

events

EXHIBITIONS

Chamberlin, Powell & Bon Architects
Until 22 March, London
www.barbican.org.uk/artgallery

FESTIVALS

Clerkenwell Design Week
19 - 21 May, London
www.clerkenwelldesignweek.com

London Festival of Architecture
01 - 30 June, London
www.londonfestivalofarchitecture.org

London Design Festival
19 - 27 September 2015, London
www.londondesignfestival.com

TALKS, LECTURES & DEBATES

Planning Law Update
22 April, Nottingham
www.architecture.com/whatson

TOURS

How Historic Buildings Work
05 March, Lincoln
www.architecture.com/whatson

TRADE SHOWS

UK Concrete Show
25 - 26 February, Birmingham
ukcs2014.businesscatalyst.com

Ecobuild
03 - 05 March, London
www.ecobuild.co.uk

May Design Series
17 - 19 May 2015, London
www.maydesignseries.com

Eco Technology Show
11 - 12 June, Brighton
www.ecotechnologyshow.co.uk

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INTERNATIONAL EXPANSION

A UK first as Gradon Architecture expands into Mongolia

A North East architecture firm has made history by becoming the first British practice to set up in Mongolia.

Gradon Architecture has opened a new design studio in the country's capital Ulan Bator, taking on three new Mongolian staff as part of the expansion.

The move is the first overseas office for the fast-growing practice, which has increased its international business from zero to 25 per cent of the company's total turnover in the last two years.

The new venture will be managed by Tanja Smith, who was recently promoted to the role of Technical Director, and has since relocated to the country to oversee the firm's expansion.

Ms Smith said: "We're delighted that Gradon has become the first UK architect practice to open for business in Mongolia. This exciting new venture will make us a unique and experienced multi-cultural design team with the ability to share ideas between the UK and Mongolia.

"In many ways the country is as modern as the UK with an



enthusiasm for forward thinking and a desire for change. However, as one of the coldest and most polluted places to live on earth, Mongolia and especially its capital Ulan Bator, continues to face significant environmental challenges.

"By being here and bringing UK standards of best practice to the country we hope we can inspire further environmental awareness across the country."

The advertisement for Prime Oak features a large, two-story oak-framed building with a dark roof and a chimney. A black SUV is parked in front of the building. A red banner in the top right corner says "Call For Our New 2015 Brochure!". Below the main image are two smaller images showing the interior of a conservatory with a large glass roof and a modern kitchen with white cabinets. At the bottom, there is contact information and a list of services.

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NEW HEADQUARTERS

'The building's design will lift the spirit and engender a sense of pride in the community to council workers and their customers alike'

Hemel Hempstead to receive facelift as new council and partner headquarters given green light

Dacorum Borough Council has taken the first step towards its new headquarters as planning permission was granted last week for the first phase of a development that will see a major regeneration of the town centre of Hemel Hempstead. The new 70,000 sq ft office building, to be called 'The Forum' is a physical manifestation of the council's commitment to openness, accessibility and longevity.

Designed by architects Aukett Swanke, the new three-storey building will be the nerve centre for the council's administrative activities, the seat for its formal civic duties and ceremonies and also the meeting point for day-to-day interaction between the public and council officers and other local voluntary bodies. The building's design will lift the spirit and engender a sense of pride in the community to council workers and their customers alike. At ground level a new library will form the heart of a major new communal space with an atrium reaching to the roof of the building, creating a light and airy space for the main focus of public activity. The floors above will house a mix of further public spaces as well private offices for staff.

Aukett Swanke won an OJEU consortia bid with the Development Manager Endurance Estates and Contractor RG Carter during mid-2014. The Gade Zone Regeneration is part of a wider regeneration programme envisaged within the Council's landholding at the heart of Hemel Hempstead. The proposed masterplan includes The Forum, a 200-unit residential development as well as a retirement home and associated commercial and leisure uses such as a cinema, restaurants and small scale retail.



Mark Gaynor at Dacorum Borough Council said: "We are looking to achieve a number of outcomes through our regeneration plans. The creation of a truly community-based facility bringing public and voluntary sector services together alongside a tangible demonstration of private sector investment in new homes and commercial facilities. The Forum will develop alongside a radical modernisation of the shopping and leisure offer together with bringing back the Water Gardens to their former glory".

Elias Niazi Design Principal at Aukett Swanke said: "This building is a tangible manifestation of the Council's regeneration aspirations for Hemel Hempstead. It underscores the fundamental role that exemplar design has in creating a focal point at the heart of the town centre. The Forum building will be a landmark structure, with a clearly expressed civic character imbued with a sense of pride in the community."

news bytes

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

Pioneering planning success following introduction of new permitted development rights...

Ref: 48477

Eastside revival continues with Birmingham City University canal side development...

Ref: 40767

Lesley MacDonagh joins TP Bennett as non-executive chairman...

Ref: 72217

Jestico + Whiles secures planning for flagship sustainable housing scheme on Caledonian Road

Islington Council has granted planning permission for a flagship residential development by Telford Homes on Caledonian Road.

Designed by Jestico + Whiles, the scheme will provide 156 homes, including 56 social rented houses, and will target the Code for Sustainable Homes Level 5. It will regenerate a challenging railway site which occupies 1.9 hectares at the north-eastern tip of the King's Cross masterplan. The

derelict site is bounded by the East Coast mainline and the London Overground on the west and north side respectively.

Jestico + Whiles' proposals comprise of seven new residential buildings, ranging from three to six storeys, in a linear configuration which runs parallel to the railway. The scheme also includes a series of stand-alone pavilions integrated within the enhanced (SINC) area.

The buildings are composed of interlocking forms clad in brick and glazed ceramic with metal patterned fretwork detailing, which invokes the wrought-iron railings found in the conservation area. Climbing plants, green walls and green roofs, which feature throughout the scheme, serve to integrate the landscape and built form. The construction works are set to start in 2015, with completion expected in mid-2017.

CONSERVATOIRE

Planning granted for new Birmingham conservatoire

Birmingham planners have given the green light for a brand new conservatoire to be built in the Eastside region of the City.

The new building is set to open its doors to students in 2017 and will provide unrivalled performance space and acoustical quality to ensure Birmingham City University continues its 130 year history of producing talented musicians and performers. The facility will be a first complete new build Conservatoire in the UK since 1987, and will offer state-of-the-art facilities that will give current and prospective students' first-class teaching provision. Plans comprise five performance venues, including a public concert hall with the capacity for over 450 seats, plus a recital hall with 150 seats and smaller experimental music space, organ and jazz rooms. There will also be more than 70 music practice rooms of various sizes.

During a long history the world-renowned Birmingham Conservatoire has earned an international reputation for excellence in music teaching, research and performances and can boast a wealth of high profile graduates, including the award winning singer/songwriter Laura Mvula and classical singer, theatre actor and TV presenter Rhydian Roberts.

Vice-Chancellor Professor Cliff Allan said: "We are truly excited about our new building, which is the next piece in the jigsaw in our ambitious estates developments. The first Conservatoire of a digital age, the new building will, like Symphony Hall and the new Library of Birmingham, force the world to sit up and take note."

AWARDS

CIBSE announce Building Performance Awards winners

M&G Real Estate were revealed as the overall winners of the prestigious CIBSE Building Performance Awards presented by the Chartered Institution of Building Services Engineers (CIBSE) on 10 February 2015 at the Grosvenor House Hotel, London.

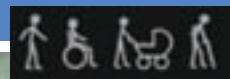
Guests saw M&G Real Estate being awarded the overall accolade of 'Carbon Champion' for its long-term commitment to improving building performance driven by responsible investment strategy. M&G, one of the top-25 global real estate fund managers, also took home the Energy Management Award for its industry leading long term programme of energy performance improvements to its shopping centre portfolio. The judges were especially impressed by M&G Real Estate showing the way in a competitive market and its effective collaboration with different stakeholders.

M&G Real Estate is following in the footsteps of last year's winner Marks and Spencer for the retailer's Cheshire Oak store, demonstrating the continued effort and dedication of the retail sector to reduce energy consumption and carbon emissions through lasting improvements in energy management. Having flown in from Australia to welcome guests at the Awards, CIBSE President, Peter Kinsella, thanked and commended all of this year's Building Performance Award entrants and winners for their contributions to delivering better building performance.

For a full list of winners, please visit www.architectsdatafile.co.uk and enter reference number 64634.



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PLANNING

Meridian Gate development gains planning

WSP, the global professional services consultancy, has been instrumental in helping clients Meridian Property Holdings and LBS Properties achieve planning permission for the new Meridian Gate tower scheme.

The development, which was approved by Tower Hamlets council at the end of January, is a 53-storey, mixed-use tower on the Isle of Dogs in East London.

Tower Hamlets described the scheme in their planning committee report as “an elegant tower which makes a positive contribution to the skyline.” The highly sustainable scheme, devised by Make Architects for LBS Properties and Meridian Property Holdings, will provide over 400 private and affordable homes.

WSP has been involved in the project since the very early stages and worked closely with the design team to develop a structural concept that complimented the ambitious architectural intent. Client aspirations for sustainable solutions, floor plate area maximisation and cost effective construction were met by delivering a highly optimised concrete structure, fully integrated with the building services. WSP also provided geotechnical, transportation and civil engineering services to the scheme.

The slender form enables 70 per cent of the site to be dedicated to new public realm providing access to a cafe, public gardens and a children’s playground. WSP, which was the structural engineer for the Shard, is currently working on a number of ‘slender skyscrapers’ across the globe, most notably 432 Park Avenue and 111 West 57TH Street in New York.

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CONCEPT

National Museum of Marine Science and Technology breaks ground in Keelung

A ground breaking ceremony has been held for Taiwan's new National Museum of Marine Science and Technology (NMMST), attended by the Deputy Minister of Education and the city mayor of Keelung. The largest aquarium in northern Taiwan, it will provide an exciting destination for visitors of all ages, attracting both tourists and the local community. Combining innovative tank design with the opportunity to engage with a wide variety of species, the experience for visitors will be unique – the project aims to set a new benchmark for aquariums worldwide.

The sustainable concept is rooted in analysis of the site and the surrounding urban grain, Keelung's subtropical climate and conservation of marine life. The building is oriented to face Badouzi harbour, while maintaining connectivity between the waterfront and the fishing village to the east of the site. Conceived as a social hub for the community, the museum's focal point will be a new public plaza at the heart of the Aquarium – many of the facilities, such as the shop, cafe and restaurant, will be open and full of activity seven days a week. In addition, special displays devoted to the conservation of local species of squid aim to foster an understanding of its importance in the everyday life and culture of Keelung.



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10TH ANNIVERSARY

New London Architecture launches 2015 programme



New London Architecture (NLA) – the independent forum and think tank on architecture, planning and development in the capital – has launched its 10th anniversary programme of exhibitions, research and events. A number of new initiatives are planned to mark the anniversary, which will reinforce NLA's role at the heart of the debate about planning the future of London in a period of dramatic growth and change. The highlight will be the installation at the NLA Galleries of a new interactive model of central London revealing the scale of proposed development in the capital.

The New London Model, which replaces the model NLA first unveiled 10 years ago, will be the biggest in the capital, covering an area stretching from White City in the west to the Royal Docks in the east. It will highlight major projects that have recently been completed or have planning permission to be built and will tell the story of London's historical and physical development through a series of interactive projections and films.

Also in store for NLA's 10th anniversary year, two new major pieces of research, each of which are supported by a public exhibition and events programme, will spotlight the critical challenges of public realm design and delivery (spring/summer 2015), and London's housing crisis (autumn/winter 2015).

'Public London: Ten Years of Transforming Spaces', the first NLA Insight Study and exhibition (23 April – 11 July), will explore the transformation of London's public spaces over the past decade, highlighting how the spaces between buildings are as important as the buildings themselves, and identifying how approaches to design and delivery will need to evolve to meet the challenges of a densifying city. '100 Ideas for Housing: How to deliver more homes for London', the second NLA Insight Study and exhibition (October – December), will incorporate an ideas competition, supported by the Mayor of London, to identify the 100 most innovative ideas which could improve how we design, build and finance housing in the capital at scale and at speed.

For a more detailed look at highlights of this year's programme from NLA, please visit www.architectsdatafile.co.uk and enter reference number 64634.

THE W.I.N.D. HOUSE

Ben van Berkel/UNStudio design The W.I.N.D. House in the Netherlands

The 'homes of the future', previously the stuff of fantasy exhibited only in World's Fairs and science fiction, are increasingly becoming a reality. Automation and connectivity are making it possible for today's smart homes to integrate information technologies through which systems and appliances are able to communicate in an integrated way, resulting in vastly increased convenience, energy efficiency, safety and security.

Architect, Ben van Berkel commented: "A challenge for the architect in the design of today's single family home is a response that accurately reflects the degrees of flexibility, sustainability and automation required by the residents and the incorporation of these into the overall concept of the design."

The W.I.N.D. House in the province of North-Holland incorporates both integrated sustainable solutions and home automation, while flexibility of spaces, the comprehensive assimilation of the surrounding landscape and a centrifugal circulation form the basis of the design.

Located on the outskirts of a Dutch village and close to the sea, the W.I.N.D. House is backed by a sheltered wooded area and fronted by a large, open expanse of polder landscape. The design of the house responds to both its setting and to the seasons, while regulating and maximising upon the effects of these.

The organisation of the house is defined by its external conditions. The more intimate working and sleeping areas are located towards the back, where the enclosure of the nearby woods provides an intimate, private setting, while the living areas enjoy expansive and panoramic views of the polder landscape to the front.

Suggesting the shape of a simple flower, each of the four facades curve towards the inside to create four distinct petal-like wings and to draw the landscape further into the interior. These curving recesses are visually connected to each other through their view lines, which cross at the heart of the building and provide varied diagonal vistas throughout the building. At the front and back the recesses strengthen the inside-outside connection by providing cross views between the wings.

The vertical organisation of the building follows a centrifugal split-level principle. An open staircase at the centre of the house – which forms the circulation core between the four recesses – connects the front and back wings, with the result that each turn on the stair provides expansive vistas through the house and out towards the surrounding landscape.

The facade and the roof are clad with wooden slats that occasionally taper in and out, providing a play of varying shadows according to different views, while also creating soft openings for secondary windows in the kitchen and bathroom.

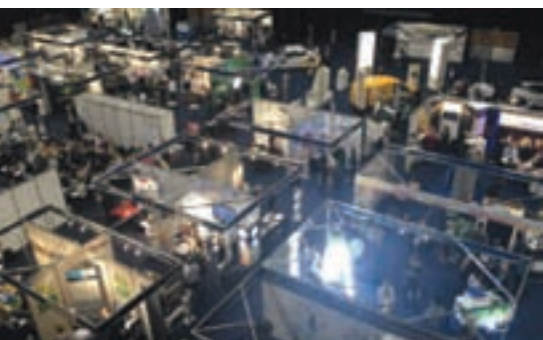


'A challenge for the architect in the design of today's single family home is a response that accurately reflects the degrees of flexibility, sustainability and automation required by the residents'

Ben van Berkel, architect

Photos:
Interior: ©Inga Powilleit
Exterior: ©Fedde de Weert

Practical Eco Technology on Show



The 2015 Eco Technology Show (11-12 June) is set to be the south's premier showcase for new products and ideas that enable developers to go the extra mile on sustainability and make their projects stand out from the pack.

The exhibitors and free seminars will help designers to identify and evaluate the techniques they can apply now; and which will translate into immediate savings for the owners or occupiers of a building.

Use of low-impact building material, sustainable drainage and renewable power generation are all familiar concepts, and are now moving into new territory as the technology improves. The best new ideas will be on show at the Amex Stadium on June 11 - 12, when the Eco Technology Show opens its doors.

An increasing concern now is the affordability of running a building. "Saving energy and water resources is high on architects' and designers' agendas. We've got the answers they are looking for and the opportunity to talk direct to the inventors," said Show Director Nicola Gunstone.

Two exhibitors with a focus on your water usage are Waterblade and Ecosoft. The Waterblade adaptor will drastically reduce the volume of water through taps while still delivering an efficient flow, so it offers immediate savings in water bill. The Ecosoft Water Conditioner uses a special alloy inside a chrome housing with precision-engineered fins and doesn't take up any extra space, doesn't need any special plumbing and uses no electricity, salts or chemicals. It also has the advantage of stripping away existing limescale.

Resource efficiency is a key theme of the Eco Technology Show and Andy Lewry, Principal Consultant at the Sustainable Energy Team, BRE, will head free seminar sessions to discuss the latest solutions for energy management during the build process, and undoubtedly will provide some useful insights for architects.

Both show and seminars are free to attend. Register for fast track entry on the website.

01273 957726

www.ecotechnologyshow.co.uk

enq.107

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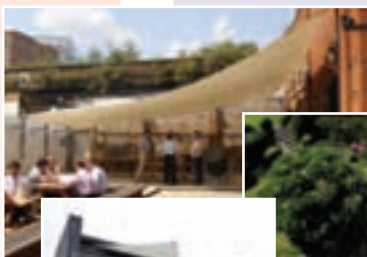
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Aluprof UK, is now offering specifiers a RIBA approved CPD. "The Use of Glazed Screens to Control the Spread of Smoke & Fire in Buildings". The CPD aims to offer guidance in the correct specification and installation of high performance fire screens. 'Building fire facts' offer the delegates some insight as to what it is like when a building fire takes hold. The 45 minute CPD is available across the UK and presentations are undertaken by Aluprof technical staff.

0161 941 4005
www.aluprof.eu

enq. 109

GREENING THE GREY



Scotscape is pleased to announce its CPD *Greening the Grey*, which aims to assist both specifiers and architects when designing and selecting living wall systems. It covers the benefits of living wall systems, good design, installation and maintenance, and the specialist irrigation required to achieve a successful living wall. Scotscape has developed a Fabric Living Wall System with integrated insulation, allowing specifiers to quantify the thermal benefits and energy efficiencies that this system brings.

020 8254 5000
gordons@scotscape.net

enq. 110

SELECTING EFFECTIVE AND SECURE FLAT ROOF SYSTEMS



Sika Sarnafil is pleased to announce the new RIBA approved CPD for Sika Sarnafil entitled *Selecting Effective and Secure Flat Roof Systems*. This CPD introduces the key components for a successful and effective roof system, covering design, materials and workmanship. An outline of additional areas included is below:

- typical application areas
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- key standards and guidelines
- sustainability
- typical challenges
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01707 394444
sarnafilroofing@uk.sika.com

enq. 111

SOLID SURFACES - FOR INTERIOR AND EXTERNAL ARCHITECTURE



CD (UK) Ltd, the exclusive UK distributors of Corian® – The seminar is structured as follows: Development of Solid Surface from 1960's to present day; Raw materials, adhesives and composition; Solid Surface characteristics and benefits; Manufacture: Sheet, Matrix sheet and shape product; Comparison of Solid Surface characteristics; From production to fabrication process; Properties of Solid Surface; Architectural and Design possibilities; Current applications (visuals); Environmental considerations.

0113 201 2240
www.cdukltd.co.uk

enq. 112

INTRODUCTION TO THE LIQUID ROOFING AND WATERPROOFING ASSOCIATION



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

0207 448 3859
www.lrwa.org.uk

enq. 113

DIFFERENT SHADES OF GREEN – DELIVERING PAINT SUSTAINABILITY



Crown Paints is launching its first ever sustainability CPD *Different Shades of Green – Delivering Paint Sustainability* at Ecobuild 2015. The seminar will be delivered by Crown Paints' CPD accredited presenter, David Spicer. The presentation pays particular focus on paint and coatings and will look at BREEAM, issues with standardisation, products helping to extend maintenance cycles, carbon footprinting, the integrated approach to sustainability and corporate social responsibility.

0845 034 1464
www.crownpaintspec.co.uk

enq. 114

RIBA CERTIFIED CPD: PLATFORM LIFTS – WHO NEEDS THEM?



This is one of the most fun and immersive CPDs you will find as **Gartec** bring a virtual reality lift experience to your offices. Gartec's RIBA Certified CPD provides expert knowledge of lifting platforms. It covers: what is a lifting platform, regulations and responsibilities, common applications, and lifting platform uses and benefits.

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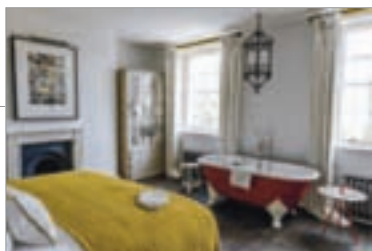
enq. 115

editor's focus

Shaws of Darwen

Shaws are renowned for their experience in manufacturing a wide and varied range of heavy duty, white glazed commercial fireclay sinks for use in schools, hospitals, laboratories, public buildings, institutions and nursing homes. Because all sinks are manufactured in England there is no delay or extra freight charges. Fireclay is a traditional robust material which can be used in many areas and is designed to withstand heavy use. Products include heavyweight Butler sinks, eight sizes of Belfast sinks, four sizes of laboratory sinks, shelf sinks, practical floor or wall mounted cleaners sinks with stainless steel bucket gratings, plus many others.

enq. 116



Earthborn

No. 38 The Park is a Grade II listed townhouse hotel in Cheltenham. It recently underwent major refurbishment including replastering all the walls with lime plaster. The owners opted for Earthborn Claypaint because it is ideal for lime plaster, allowing the walls to breathe, and has an outstanding colour range for conservation work. It is one of the Earthborn range with Eco-label accreditation. Claypaint dries very quickly, which was useful considering the timescales on this project. And it gives off no odours or harmful emissions, so the hotel was happy for guests to occupy rooms within days of painting.

enq. 120

CED Stone Group

CED Stone Group are introducing a new range of ancillary products for 2015, alongside a number of new stone and paving products. The ancillary products include the much acclaimed "Slab Cutting Guide", which enables paving slabs of up to 1200mm to be cut safely with a wet-cut saw, a new Aluminium Edging available in 150mm or 80mm high and the Terram Geotextile Fabric 50m² "minipak". In addition to the existing "Imperial Granite" range stocked by CED, they are now also offering complimentary Granite Copings and Edgings to increase the comprehensive range of natural stone products already available from their five nationwide depots.

enq. 117

Building Additions

Building Additions are a specialist folding partition and movable wall company based in the UK that offer a complete one stop service from initial design of your bespoke sliding partitions or operable wall systems, through manufacture and installation of the individual units and a full after care service. Building Additions folding partitions and movable walls come in a wide range of finishes with different acoustic properties. They can be tailored to suit almost any space providing a quality solution to maximising the use of space within any commercial building.

enq. 118

Premier Interlink

Premier Interlink (Waco UK Ltd) is a leading manufacturer and supplier of modular buildings for hire and sale in the UK. As the UK government puts reformation of social housing at the top of their agenda we continue to spearhead innovation with our Off-Site Modular Housing solutions. The modular building specialists offer a range of solutions through to Passivhaus. Barry Holden, Regional Director advises that a typical house is 44 per cent more energy efficient than 2006 Buildings Regulations Standards, with a variety of envelope treatments available to be used in conjunction with the modules.

enq. 119

Scotframe Timber Engineering

The energy efficiency of a building means how much fuel is required to power its heating and water systems and how well the building manages to retain the heat that is generated. Scotframe Timber Engineering Ltd manufacture an innovative and unique injected PU closed panel timber frame system called Val-U-Therm[®] which directly addresses these issues. Val-U-Therm[®] panels are factory injected with a high performance PU material, which fills every void, making it exceptionally thermally efficient, achieves extremely low U values and is virtually airtight.

enq. 121

Pop Up Power Supplies

Pop Up Power Supplies recently installed nine retractable service power units within the stadium arena at Chelsea Football Club. The half tonne units are buried out of site beneath the perimeter of the pitch and are raised out of the ground when required. Chelsea Technical Services Team needed a power solution to enable the ground staff to power their specialist hydroponic equipment to nurture the growth of the pitch. The solution was Pop Up Power retractable service units. The cabling was provided by YESS. The Chelsea ground staff now have access to multiple 63 A and 32 A TPN waterproof power feeds.

enq. 122



Electropatent

Electropatent is a market leader in the design and manufacture of flexible and versatile power, voice and data systems. The company has been designing, manufacturing and supplying, flexible solutions to building services' problems for three decades and are experienced in providing solutions for many applications including trading floors, data & call centres and academic institutions. With an extensive range of products, manufactured to suit both the project and budget, the company's knowledgeable and experienced staff are available to help you find the right solution whether it is a simple access grommet or a complex mission critical system.

enq. 126



Newton Waterproofing Systems

Newton Waterproofing Systems have just unveiled a new online RIBA Approved Double Points CPD 'Structural Waterproofing Design Strategies to BS8102:2009'. The presentation was filmed at Newton's extensive training facilities. It is 18-minutes long and is being offered to architects and specifiers as an alternative to booking a CPD at their premises. The CPD includes a focus on how combination waterproofing systems are designed and specified for below ground environments on both new-build and existing structures and sample technical specifications of waterproofing systems.

enq. 123



Acoustic GRG Products

Acoustic GRG Products Ltd recently completed supply and installation of all acoustic treatments to the music building of Winchester College (pictured). The project included RPG Absorbor ceiling panels and FlutterFree acoustic timber to the foyer ceiling; bespoke curved canopies, and 1600mm diameter acoustic discs made in one piece with no visible joins. RPG Harmonix diffusers in FRG were also installed, which created an undulating 3D feature wall. Design was by BHM Architects.

enq. 124

Oxford Planters

Oxford Planters design and manufacture wooden planters, tables, chairs, benches, garden gates and pergolas. The wooden products are all individually handmade to order in the company's Oxfordshire workshop and are available in Oak, Iroko and Accoya, the exciting new 'hardwood'. The range includes a variety of traditional and contemporary styles, while a bespoke design and build service ensures that Oxford Planters can meet the needs of almost any situation. Clients include private individuals, garden designers, interior designers and architects.

enq. 125

Sustainable Drainage Centre

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

enq. 127

Paul Griffiths appointed Regional Director



Paul Griffiths has been appointed to the position of regional director south for PIR insulation specialist **Recticel Insulation UK** and Gradient, the market leading bespoke flat roof insulation manufacturer and a division of the Recticel Group. Paul will be looking after the business in the south of the UK for both

brands and will be supported by a team of four area sales managers. Paul joins the company from facade and render systems brand, Parex, where he was strategic development manager. Prior to that he spent 10 years as national sales manager for Sika Trocal and head of business development at Knauf Insulation. Paul brings a wealth of experience to his new position.

01782 590 407 www.recticelinsulation.co.uk

enq.128

Axim website – new design & mobile ready



Axim Architectural Hardware continues to maximise without compromise with the launch of a new website which guides users through the process of selecting the correct door hardware solution for concealed overhead, surface and floor mounted door closers, panic exit devices, flush bolts, handles and locking products. For users on the move, the site is fully compatible with mobile,

iPad, and android devices. Clearly defined product areas which feature information of new products are available to help and inform customers on the specification and features of the different Axim solutions.

0208 685 9685 www.axim.co.uk

enq.129

10-10-10 for GEZE UK



Just a year after its parent company celebrated its 150th successful year, **GEZE UK**, one of the UK's leading manufacturer of door and window control systems, is itself celebrating a hat trick of anniversaries. Ten of the company's staff have received 10 years' long service awards in the 10th anniversary year of

its Lichfield headquarters. GEZE first opened a UK base in 1988 to co-ordinate the distribution of its manual door closers. This was followed by a facility in Tamworth in 1998 to supply and install automatic door systems. In 2003, the decision was made to bring the two operations together under one roof.

01543 443000 www.geze.co.uk

enq.130

Kingspan sets the standard for energy efficiency



Kingspan Insulation is pleased to announce that its manufacturing facility in Pembridge, Herefordshire has now been certified to energy management standard ISO 50001. Kingspan Group voluntarily discloses its environmental performance and carbon emissions via the Carbon Disclosure Project (CDP)

and Kingspan Insulation also carries out annual comprehensive reviews of energy usage at the site. Clear improvement plans are identified for the introduction of new staff training, energy reduction measures and renewable energy generation technologies at the site. Kingspan Insulation is set to roll out ISO 50001 across all of its manufacturing sites over the next few years.

01544 387384 www.kingspaninsulation.co.uk

enq.131

Schueco announces new Excellence Awards



Leading sustainable building envelope specialist **Schueco UK** has announced that, in conjunction with *RIBA Journal*, it is again running the Schueco Excellence Awards for Design and Innovation. The 2015 Awards will be presented at a special lunchtime event to be held in June at the Saatchi Gallery in Chelsea and the winning and commended entries will be published in a special supplement accompanying the July issue of *RIBA Journal*. Launched in 2014 to celebrate the very best

in UK building design, the Schueco Excellence Awards have nine separate categories covering more or less every sector of the industry. The only stipulation for entry is that the building submitted should include at least one Schueco system.

01908 282111 www.schueco.co.uk

enq.132

New TTA technical seminars in May



The **Tile Association** will be holding new technical seminars from May 2015 to help professionals in the industry gain a deeper understanding of specialist areas of tiling. The seminars will be held at regular intervals at TTA headquarters in Stone, Staffordshire, and are in partnership with CITB. The first event takes place on Wednesday 6 May, with a morning seminar on 'Tiling to

Heated Floors' and, following lunch, another seminar on 'Tiling to Calcium Sulphate Screeds'. Places are strictly limited to 30 for each event and operate by advance booking. There's a small charge for the day covering administration, lunch and handouts – at £35 per person for members and £45 for non-members.

support@tile.org.uk www.tiles.org.uk

enq.133

New Comar website: BIM Ready



The latest launch from **Comar**, a leading British architectural aluminium system company, is its BIM ready website. The new Comar website delivers information to supply chain partners as fast as possible by reducing clicks. This is achieved by making navigation easy; users quickly learn to navigate the site. A clear menu allows one-click information on project references, aluminium system selection, BIM access, environmental credentials, CPD and latest news. Comar's current connections and followers of their Twitter, Facebook and LinkedIn pages will be kept up to date with new information as it is posted on the News Page. On the move the website offers responsive design allowing mobile and tablet users access to the same concise, quick to use information. BIM information is available through logging into the Comar partner website. Simply register for a password. The Comar partner website offers further detailed technical information, such as its extensive range of Technical Manuals, Test Certification, NBS templates and clauses, and for its fabrication partners CNC and tooling information. The BIM section easily identifiable with a landing page that offers a quick selection into the main system categories: curtain walling, windows walling, windows, doors and ground floor framing.

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

enq.134

Celebrating 350 years of innovation



Saint-Gobain, a leader in sustainable habitat and construction markets, is marking its 350th anniversary with a series of events and activities to celebrate its history and confidence in the future. Saint-Gobain will be sharing this milestone with customers and

consumers alike, beginning with four interactive, futuristic pavilions travelling around the world, giving an insight into the company's 350 reasons to believe in the future. As well as the launch of the new, rebranded website, an online game will also be available to download and play on all smart devices. Saint-Gobain now has a presence in over 64 countries. Saint-Gobain in the UK and Ireland employs over 17,000 employees across 1,000 sites.

enq.135

news bytes

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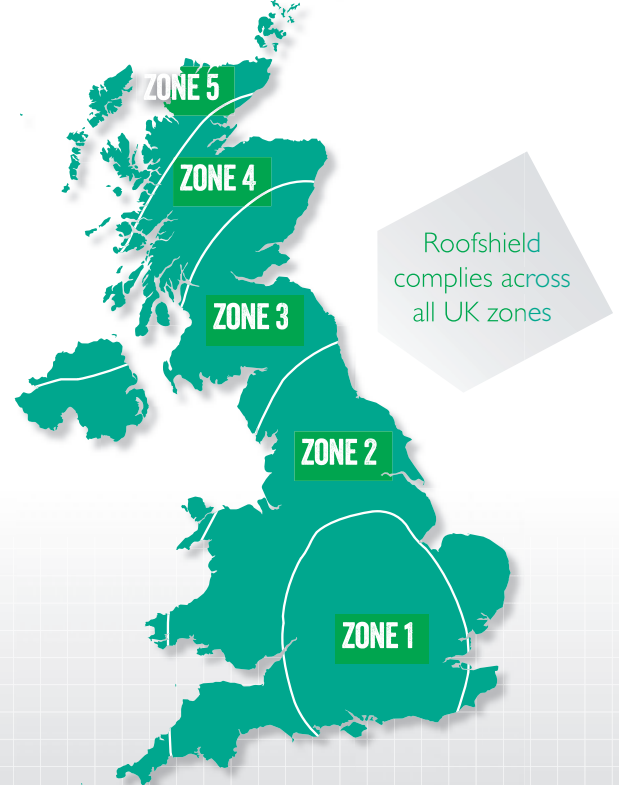
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3 Church Road London

Sometimes a site appears so complex that one wonders if it is destined never to be developed at all. The 3, Church Road site in Ealing, appeared to be just such a proposition until Autor Architecture got hold of it, reports Michael Willoughby

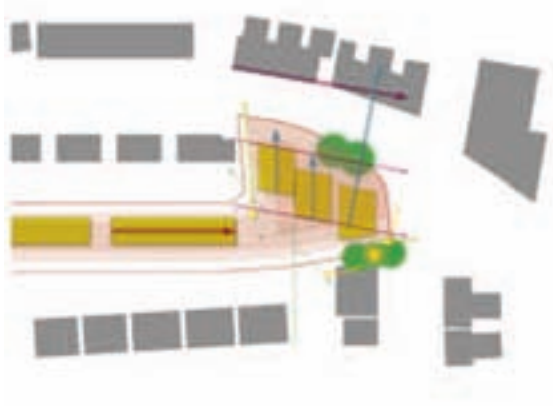
The creation of what is now 29 mixed private and affordable properties on a site of a former nursing home, had been refused by Ealing Council, who came up with no fewer than 48 separate objections on two separate occasions. They disliked everything from design, overlooking, noise, access, parking, pollution and massing.

The proposed site has two different characteristics. The front portion occupies a prominent corner position on Church Road facing the three Churches: The Church of our Lady, St Mellitus Church and Hanwell Methodist Church in a linear, 300m stretch. The 20m wide and 100m long back part

of the site stretches across the 31 rear gardens of Church Road and Balfour Avenue.

At the front, the site's complex constraints reduce the buildable area to a third. These include the front boundary that forms a non-continuous radius, a substation and five root protection zones that penetrate into the site by up to eight meters. Additionally, the neighbouring properties are two-storey and do not give any hint toward useful building lines or height references. At the rear, site constraints include overlooking, overshadowing, overbearing impact, noise, privacy, amenity space and site access.

Continued overleaf...



According to Autor's view of the local area, the scheme at four floors – where three wards and their churches join – can establish a new axis within the existing urban fabric

All this made it a difficult proposition financially: the development had to be four storeys high to stack up. If that wasn't enough, during 2008, the financial crisis hit and the site sunk even further underwater. The developer was forced to sell the front proportion of the site to Thames Valley Housing Trust, with a subsection managed by Inquilab, a smaller housing association with less experience of developing in the borough.

"The sites constraints in the context of the financial crisis made it a challenge to provide successful place making architecture at the financially necessary density level but without compromising the identity of the area," says Autor MD, Frederic Paulus Akuffo.

At the front, the site's complex constraints reduced the buildable area to a third. These include the front boundary that forms a non-continuous radius, a substation, and five root protection zones that penetrate into the site by up to eight

meters. Additionally, the neighbouring properties are two storey and do not give any hint toward useful building lines or height references. At the rear, site constraints included overlooking, overshadowing, overbearing impact, noise, privacy, amenity space and site access

It fell to him to maintain the profitability of the site while checking off each and every one of the objections. To gain approval, he says, “the applicant has to win 48 times; the council only once.”

The hearing took over eight hours and involved more than 15 residents from three different wards. Meanwhile, the client team brought eight different consultants to give evidence.

“It was the most difficult [project] we have ever worked on since there was a requirement for maximum density, while the council and local residents pressed very hard for non-overdevelopment.

When selling the front block to TVHA the scheme had to be further increased in size by about 10 per cent to comply with the new GLA space standards. The council used this minor material amendment application as a chance to condition the full material pallet in two consecutive committee meetings. The result was a high-quality development.

The process was “highly unusual,” says Akuffo. “The council not only requested high quality material samples of the brick and cladding elements, but also summoned 1:1 build samples of the balustrades, windows and louvres to the committee meeting.”

He says the housing association’s contractor tried to argue with the decision and the materials but was refused. In retrospect, the 48 reasons for refusal look suspiciously like an overwhelming desire on the part of the council not to have anything built. Indeed, the appeals inspector awarded the appellant to have parts of the appeal cost covered by the council for ‘unreasonable behaviour’.

That meant the real work on Autor’s behalf came in creating an overriding narrative to move the scheme through the planning system.

The story the architect told was of providing a link in a dense urban fabric dominated by two great “ways” – an ancient and extant Roman high street in Uxbridge Road – and an emerging new road in the form of Crossrail.

According to Autor’s view of the local area, the scheme at four floors – where three wards and their churches join – can establish a new axis within the existing urban fabric. As such, the development is oriented with the three existing churches and acts as a bridge between the historic layers of the immediate area.

Finding a balance between the density requirements of the area involved the architects negotiating the building envelope through the principle of what they call ‘geometric design

Continued overleaf...



‘Sinking the mews 1.5m below ground level allowed the kitchen windows at the front to be moved beneath eye level view of passing pedestrians’



blueprints' that can flexibly respond to the constraints matrix of the site while at the same time acting as an efficient construction grid on this complex site.

The design of the front block is based on three stepped squares linked to the scale of the neighbouring structures and different on each elevation. So, in effect, the scheme uses height to link points in the area and stepped rhombi to respond to the site constraints. To the rear, the mews houses are set out on a multiple of seven degrees to rationalise construction elements, while maximising outlook levels but minimising overlooking. At the same time, the layout breaks down and gives rhythm to the 100m long elevations.

Sinking the mews 1.5m below ground level allowed the kitchen windows at the front to be moved beneath

eye level view of passing pedestrians. At the rear, the sunken help to reduce noise levels in relation to the 35 neighbouring properties.

The project's layout is a stepped single-aspect where a GLA definition is used – because the Agency defines a corner unit as dual-aspect – making it a winner here since the team could include more efficiency into the scheme.

To combat the potentially poor ventilation and bad outlook which is a peril of single aspect dwellings, the team worked hard to create sublime outdoor spaces. These are various spaces delineated as “retreats” in terms of amenity space within the site.

This is unusual because front gardens are not usually for amenities, but the presence of the two 15m high trees made



Every apartment has a 1.5m GLA-compliant balcony enclosed so as to provide more shelter on the busy Church Road and limit overlooking onto neighbouring properties

for a restful area the team called “The Poet’s Garden.”

The back amenity, such as communal rear gardens with a play space, communal front gardens shaded by the protected trees, and three roof terraces, step down towards the rear from four stories down to two stories. The front is monumental to be in line with the churches while the rear steps down to link itself in terms of greenery and volume with the smaller scale residential gardens.

The idea, says Akuffo, “is to pursue maximal density to facilitate a viable development while creating a design whose identity is integral to its neighbourhood.”

“We managed to turn the schemes’ taxing constraints into opportunities by using what we called a Relationship matrix,” he continues. “Due to the onerous amount of constraints we

looked not at the constraints in isolation but at their relation towards each other.”

At the front the huge Class A trees that on the one side reduce the buildable area can actually be used to shield and step the scheme linking it with the prevailing neighbourhood. Translating these relationships into building resulted in an architecture that is inherently generated from and linked to its place and community.

Meanwhile, every apartment has a 1.5m GLA-compliant balcony enclosed so as to provide more shelter on the busy Church Road and limit overlooking onto neighbouring properties. These are enclosed in clad volumes with semi-pitched roofs which correspond with the sloped roofs of neighbouring properties. The three projecting volumes

Continued overleaf..



correspond with the three churches in the area – linking the building to the architecture of the area.

The cladding was another stand-out element – glass-fibre reinforced concrete called ‘Rieder - Öko Skin’ which gives a rough finish like stone. The methodology became known from its use on the South African World Cup Stadium. But Church Road marked the first time that a timber patterned application had been used in on a development in this country.

The mews houses are built using a hybrid cross laminated timber (CLT) system, combined with a TGI timber cassette system. This system detailed with Autor who specialise in prefabrication is Pinewood’s first application in the UK minimising the construction cost compared to conventional CLT Systems and enabling an efficient, sustainable construction process on the constraint back-land element of the site.

Environmentally the scheme is up to Code 4 and includes solar panels as well as a decentralised heating system. Each flat has its own heat-exchange unit. The property features aluminium double-glazing and is 10 per cent wheelchair accessible as befits its funding by the HCA.

Following a very difficult birth, Ealing Council was so happy with the scheme that they paid to have it submitted it for the New London Design Award 2014, after it was already shortlisted for the Housing Design Award 2012.

In her committee report, Juliana Conde, the council’s urban design officer for the council, dubbed it: “A high quality design that is a specific, well thought response to the numerous constraints of a very difficult site and succeeds in creating attractive buildings, that have a strong character.”



Project details

LPA: LB Ealing

Client: Leo Developments Ltd / TVHA – Thames Valley Housing Trust

Site: 3 Church Road London W7 0BB

Scale: 20 Flats and 9 Mews Houses, mix of private/affordable; Density 69 units/ha - 225hbr/ha

Contract: £5.5 million

Status: On site

Contractor: Front: Francis Construction Ltd

Back: Leo Developments Ltd

Crown Paints social housing sector guide



Crown Paints has produced a comprehensive guide to help specifiers get the best from colour for housing projects. The *Housing Colour Book* pulls together a wide-range of guidance, ideas and inspiration to make selecting shades easy and effective.

With a highly visual focus, the 56-page guide includes a range of useful features including a comprehensive colour library, which showcases a variety of palettes in different roomsets. Information on choosing colour schemes to support visually impaired people, as well as people with dementia, is also included. The guide is available for free download at Crown Paints' Specification website www.crownpaintspec.co.uk/literature

0845 034 1464 www.crownpaintspec.co.uk

enq.138

Spencer Returns to GEZE UK



GEZE UK has continued its expansion programme with the appointment of Spencer Allen, who re-joins the company as national sales manager for window technology systems. Spencer first joined GEZE in 2006, before leaving in February 2014.

During his eight years' with GEZE, Spencer worked across the technical support, project management and sales divisions, building up a wealth of product knowledge and experience of the industry and its customers. In his new role he will be responsible for growing sales of window technology systems across the UK and will work with architects, contractors and other specifiers to ensure that they select the right window solution for each project.

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enq.139

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enq.141

Town hall to keep heritage intact

With its Portland Stone facade and its classical architecture, Barnsley Town Hall is one of South Yorkshire's most distinctive landmarks and best loved buildings.

When Barnsley Council commissioned a project to refurbish the roof as part of a programme of improvements to the building, Kemper System not only had to ensure that the roof was upgraded successfully without any disruption to council services but also had to complete the scheme without any impact on the rest of the building.

Explains Victoria Ramwell, technical sales representative of Kemper System: "The project involved installation of a new warm roof system to enhance the thermal performance of the building as well as providing a new waterproofing surface.

"The town hall remained occupied throughout the programme and the building not only involved challenges in terms of the roof build up and complexity but also has delicate features that we had to protect during the works, affecting the way

in which the programme was designed."

To address these challenges, the Stratex warm roof system with Kemperol 2K-PUR liquid waterproofing membrane was specified by Kemper System. Kemperol 2K-PUR is solvent-free and odourless; ideal for use on occupied buildings where the odours from solvent based or so called low-odour products can be disruptive. Kemperol is also cold applied and therefore can be installed without hot works or the fire risk associated with them.

The existing roof build up consisted of asphalt, followed by a screed and a further layer of asphalt. Barnsley Council were keen to reduce the weight on the roof and so the top two layers had to be removed before installing the new roof.

The remaining asphalt surface varied in condition and a new vapour control layer had to be installed over large areas of the roof surface before installation of Kemper System's Kempertherm insulation board.

019 254 45532 www.kempersystem.co.uk enq. 142



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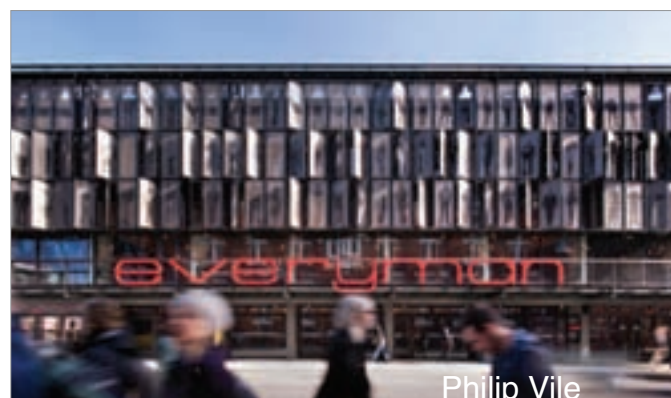
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There when you need them, hidden when you don't...



enq. 143



Philip Vile

Everyman Theatre 3-year redevelopment

It took three years to redevelop the Everyman Theatre in Liverpool. But the results have been spectacular as a much-cherished but ultimately flawed building was transformed into the highly accessible, environmentally-friendly and versatile modern building which was recently honoured with the prestigious RIBA Stirling Prize. Keeping those links alive while the theatre was under construction was not an easy task. However, thanks to a smart initiative by the Everyman, with the collaboration of live webcam service provider **Streamdays**, closing the doors on the public did not mean shutting them out of the transformation. A network camera was installed and configured by the Streamdays team in time to provide HD quality images from the start of demolition work until after the final re-opening in March 2014. The live webcam enabled visitors to the theatre's website to stay up-to-date as it moved through six different pre-set positions.

0151 633 2111 www.streamdays.com

enq. 144

Getting the design right

Getting the design right on schemes that mix new-build and restoration of listed buildings is notoriously difficult to achieve. When the London Borough of Newham decided to try and create a campus at the site of the authority's Edwardian office complex in east London, decisions over the palette of materials on a new-build were to prove crucial. Steve Menary reports

At the heart of the council's offices are a Grade II listed Town Hall and a technical college that was designed in 1903 by Cheers & Smith. More than a century later Rick Mather Architects (RMA) were awarded the commission to reinvigorate the offices.

The RMA practice chose to try and re-establish the original master-plan by Cheers & Smith and went on to develop this into a site-wide master-plan. The brief from the client was to provide a long term strategy for the council's buildings, bring back into use listed buildings and improve pedestrian links through the campus and consolidate vehicle traffic.

A phased approach was used, which will ultimately involve detailed restoration and alterations to six listed Edwardian buildings that will be brought back into use. This is tied into public realm enhancements to improve access and connectivity through the site with a new environmentally friendly energy centre used in one part.

The overall campus development will eventually run to seven phases, although only the first four stages are being carried out initially. For the RMA practice, the challenge in the design brief was to come up with a proposal for the new buildings that would complement the old listed ones.

To carry out the construction work, the council recruited BAM Construct. RMA has prior experience with BAM, as the



Continued overleaf..



The brief from the client was to provide a long term strategy for the council's buildings, bring back into use listed buildings and improve pedestrian links through the campus and consolidate vehicle traffic

architect and contractor worked together on the Ashmolean Museum of Art and Archaeology in Oxfordshire.

BAM started on site in June 2012 with the task of saving the ornate Grade II listed former technical college designed by Cheers & Smith. The building had not been used for a decade and was no longer structurally sound. Water ingress had ruined the parquet flooring, but the listed building had to be saved. Mr McLaren adds: "We had to turn it back into something that had a sealed envelope. There are new roof

details but we had to keep the character and match the new to the old."

The detailing and palette of materials on the technical college were a major influence on the design for the main new-build element of the scheme, which was to be built next door. This building comprises a three-floor, 33,000 sq ft building to accommodate a range of civic services, such as council tax and benefits advice along with a public library.

"Requiring civic presence befitting the clients' brief, while

being a natural fit with the neighbouring Edwardian buildings that front the busy Barking Road the Customer Service Centre & Library (CSC+L) is an exercise in scale, materiality, and rigorous detailing,” says RMA in describing the design.

“The siting of the CSC+L was carefully considered as the catalyst for a host of new routes and interlinked public spaces across the campus. The building knits together the wider site by emphasising the relationship between the Civic Campus and Town Centre. A deceptively simple square plan typology drawing on the immediate context is then sculpted notionally to involve aspects of its surroundings: establishing an exchange or connection between elements. The plan form in turn, responds to existing trees, adjacent streets, building lines, vistas, and takes a particular interest in the way facades turn corners and windows framing key views.”

The design specification included red brick to pick up on the surrounding buildings, in particular the Cheers & Smith technical college. To make way for the new library, BAM had to demolish a gym and ensure that the materials were ordered well in advance.

BAM Construct construction manager Kevin McLaren said: “We had to get new terracotta and Welsh slate in for the technical college in and there’s a six month lead in on terracotta and on Welsh slate there’s quite a long lead in too.”

The specification for the library construction comprised a concrete frame with a Metsec roof. The environmentally friendly element of this scheme was the introduction of thermal piles from Econic, which involved digging of large trenches to make way for the heating pipes.

This build was determined by the design. Mr McLaren says: “The piling is ground-bearing with thermal piles and ground source cooling and heating for the library around the outside. The thermal pipework was in the slab, as we couldn’t hide the pipework at the top of the slab as we had a fair-faced concrete frame.

“Having a fair-faced concrete frame with thermal pipework in the slabs adds real complexity. If you cast it wrong, you can’t just break it out. You have to get the pours and the temperature of the concrete right. There’s a lot of design work up front.”

Ultimately, this form of heating is hoped to extend across the whole campus. “When you are working for the local council, you have to do something above the call of duty,” says Mr McLaren. “The library was going to be an energy centre for the rest of the campus as there’s capacity there for the rest of the scheme.”

The library also features a weather-tight roofing solution. Alltech Roofing designed, supplied and installed polymeric single ply membrane on tapered insulation on the concrete deck. The sub-contractor’s package also included supply and

Continued overleaf..



‘Visitors can walk around a campus that is a successful mix of old and new’



installation of specification flush glaze walk on roof-lights, PPC copings and man-safe system to the main roof areas.

Mr McLaren describes the brickwork as “some of the hardest we’ve ever done.” He adds: “There are brick ribs across the windows, but if you look at it it complements the technical college. You can see why RMA choose that design as it complements the terracotta. You couldn’t just stick in a rendered box on that site; you need something that stands out.”

RMA’s also specified curtain walling and a flat roof for the library, along with terracotta fins on the exterior. “The fins are there to match the sixth form college,” explains Mr McLaren.

“We tried to reduce the number of finds to save money but that would have increased the solar gain into the buildings.”

After completing the refurbishment of the former technical college, the client had a change of heart. The building would no longer be used simply for offices but be returned to its original use – education.

A sixth form college would occupy the building, but this necessitated new planning and interior changes by BAM. The change of use to a sixth form college was given planning approval in January 2014 and BAM started work on the changes, which included removal of a structural floor, new



drainage, waterproofing, insulation, and double storey underpinning of a plant room.

The following month, Newham mayor Sir Robin Wales officially opened the library building in February 2014. “A great deal of work was required from all parties to make this scheme happen. We have not let up on site,” said BAM’s construction director Andy Mason after his firm completed this section two months later.

The final parts of the scheme included extending the Town Hall with a steel frame extension tied back to the existing facade, and also constructing a new link building. The latter

features a design that picks up on the most striking elements of the library to stand out rather than blend in.

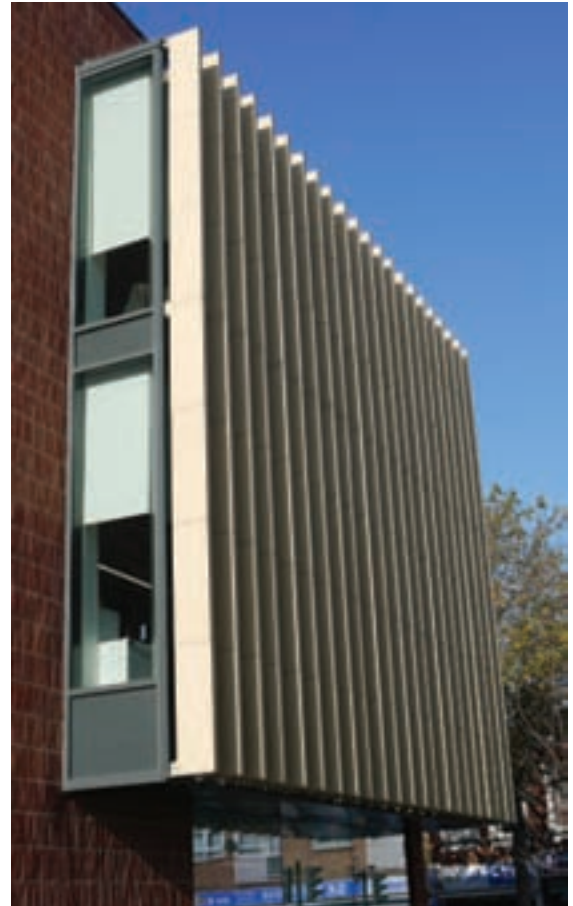
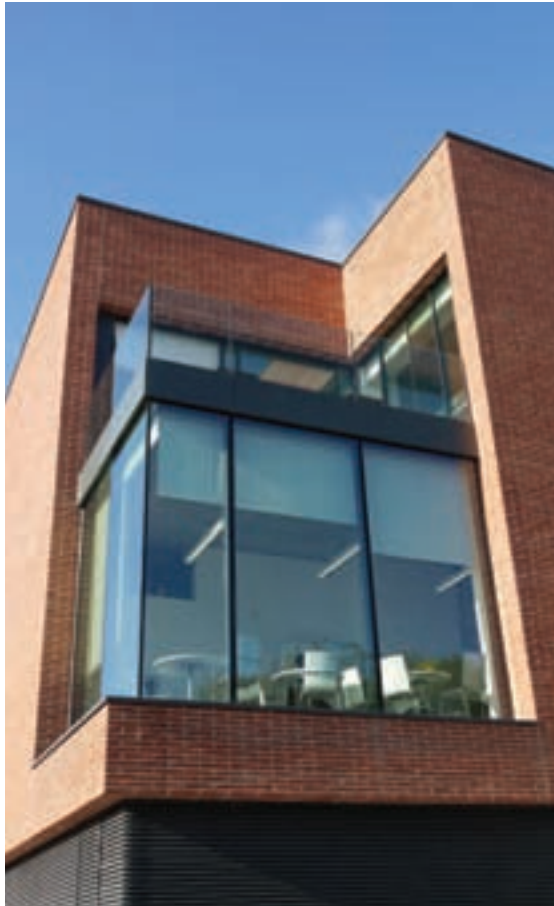
Depending on funding, three more phases will be pushed through as the council look to complete the campus. An internal refurbishment of the Town Hall is expected to follow before a sixth phase sees the old fire station refurbished and a seventh section of works on the public realm and landscaping will ultimately complete the campus.

Cost has been an issue. The customer service centre and library were initially valued at £12 million, when BAM was appointed as contractor back in June 2012. Back then the

Continued overleaf...

'The quality and use of brick detailing is high and consistent throughout and its solid structure is beautifully put together and well executed'

Judges of the
2014 Brick Awards



overall East Ham Civic Campus was valued at £20.8 million, but since then there have been major changes to the initial brief for the project and the value is now significantly higher.

For now, East Ham Civic Campus is not quite complete but the ethos that Cheers & Smith brought to the initial site a century earlier has been resurrected. Visitors can walk around a campus that is a successful mix of old and new.

This was reflected in the 2014 Brick Awards, when the library and customer service element of the campus won the award for the best public building. The judges described the building as a "well-designed building".

The judges added: "The quality and use of brick detailing is high and consistent throughout and its solid structure is beautifully put together and well executed. Vertical brick ribbing on the building's external facade creates an interesting aesthetic and contributes to the overall beauty of the project. The architectural quality is powerful in terms of spatial and light manipulation."

Project details

Development value: £36 million
Client: London Borough of Newham
Architect: Rick Mather
Consulting engineer: Mott MacDonald
Structural engineer: Haskin Robinson Waters
Quantity surveyor: Currie & Brown
Main contractor: BAM Nuttall
Roofing: Alltech Roofing
Concrete frame: Getjar
Interiors: Wallrite Interiors
Flooring: Kingspan Access Floors
Lifts: Kone
Scaffolding: Artel
Plasterwork: JT

Grade II Listed 'Elephant House'



Elephant House, built in 1890-1901, was a bottle store for Camden Brewery. William Bradford, the leading architect of the time used highly ornamental stonework to create an elephant's head, which was the branding of one of the brewery's famous pale ales. This can still be seen today above the main entrance way and why it is known as 'Elephant House'.

Due to the special architectural interest of this Victorian Building, it was granted Grade II Listing in 2009.

In 2013 Hawkins/Brown was commissioned to draw up plans to change the use of the building to accommodate offices. In such an old building, with the addition of the heritage listing, the project needed to be carefully considered ensuring a sustainable, comfortable and safe working environment was created.

The original single glazed windows presented a problem; they were unable to be replaced, they

were draughty and did little to combat noise from the busy roads outside. Bespoke designed secondary glazing was the solution to achieving high levels of noise attenuation and thermal insulation, as well as being regularly used on listed buildings and those in conservation areas.

A total of eight windows were treated with two different styles of openings from the Selectaglaze heritage range. A single hinged panel with a curved head was used in most of the openings, which mimics the original and allows access to the primary window. The discreet frames along with flush hinges and flush locks created a flawless look and achieved the desired benefits, without compromising the beauty of the original windows.

Established in 1966 Selectaglaze are the secondary glazing specialists. With an array of options, they find the best suited window to meet the client's needs.

01727 837 271 www.selectaglaze.co.uk enq.145

From Gothic to Glorious



Osmo UK's eco-friendly UV-Protection-Oil has been used to safeguard, restore and rejuvenate a Gothic Revival porch at an 18th Century listed property in Cambridgeshire. Andrew and Mark Hoskins, antique restoration specialists, brought it back to life and reinstated it to its former glory, using Osmo's UV-Protection-Oil to not only protect the wood, but also to

enhance its natural beauty. It is common knowledge that weather can have a damaging effect on wood. Whether it is the wood cracking and peeling, or fading to grey as a result of the harmful effect of the sun, or being susceptible to algae and fungal decay from exposure to water and winter weather conditions, the wood requires an effective protection layer.

enq.146

Compact VMZINC roof for the Ashmolean



The £61 million, five-floor redevelopment of Oxford's Ashmolean Museum, designed by Rick Mather Architects, has a compact, standing seam roof using 1,500m² of VMZINC PLUS in pre-weathered QUARTZ-ZINC*. 39 new galleries, an education centre, conservation studios and Oxford's

first rooftop restaurant, the Ashmolean Dining Room, are housed in an extension which has replaced all but the original 1845 Cockerell Building. The underside protective coating used with VMZINC PLUS obviates the need for additional ventilation, while pre-weathered colours such as ANTHRA-ZINC* and QUARTZ-ZINC* retain their appearance through natural patination.

01992 822288 www.vMZinc.co.uk enq.147

Lead us not into temptation...



Lead, the soft but precious metal favoured by roofers almost as much as it is by thieves and vandals, was not the final choice of developer, Berkeley Homes, when it came to protecting the magnificent sandstone gable copings on Golders Green 1908 Carmelite Monastery re-development.

Instead Berkeleys turned to North West roofing products specialist, **Guttermaster Limited** who fabricated intricately curved and sculpted perfectly shaped cappings in colour-coated aluminium. Known for its hurricane proof wall capping, Guttermaster recognises the important role securely fixed aluminium roofing products have in historic roof repairs at a time when theft of lead from roofs, resulting in untold damage is at an all-time high. "The key, as we see it," says managing director, Mike McKee, "is not to put temptation in the vandal's way. Aluminium provides the specifier with a lightweight, durable and versatile alternative." Those developments scheduled for conservation areas will rely on rainwater goods which reflect the style of decades, indeed centuries long gone. Guttermaster's Serpentine gutter range answers the call complete with durable colour coatings. Moreover, the Guttermaster range of gutters has now been successfully snowload-tested to loadings of in excess of one metric tonne across a single three metre length.

enq.148



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149

MAKING LIFE WARMER SINCE 1853

Ecobuild 2015 to close the collaboration loop for a BIM-enabled future



For the first time, visitors to Ecobuild can access formal CPD opportunities by attending any official Ecobuild seminar session at the 2015 event, including a brand new Building Information Modelling (BIM) stream

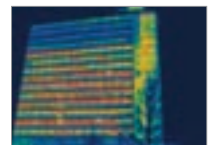


Look out for



Swish Building Products will be exhibiting at Ecobuild 2015 showcasing its full range of products and focusing on how they can be used on different styles of properties. The low maintenance, longevity and functionality of PVC building products in various applications will be on display on stand. N2080.

enq.150



Selectaglaze (stand S2072) Secondary Glazing systems using low emissivity glass can reduce heat loss across a window by more than half and achieve a U-value of around 1.9. Bespoke manufacture and high performance seals ensure the tightest fit, reducing air infiltration and almost eliminating drafts.

enq.151

Led by the NBS, Ecobuild (03-05 March, ExCeL London) will host sessions to help every professional implement BIM within their business – from services engineers, facilities managers and surveyors, to designers and architects from practices large and small.

The NBS has identified some key themes as a result of its latest BIM report which will be covered in a variety of interactive seminars, panel sessions and debates at Ecobuild. They will also be engaging with other leading bodies in the fields of FM, engineering and construction to inform the wider programme.

The first topic will go back to basics and take attendees through the principles of each level of BIM and how these apply directly to different stakeholders within the supply chain. Ian

Chapman, director of National BIM Library, said: “While some parts of the industry have good understanding of BIM, there is still a lack of confidence particularly around what level 2 BIM means. As well as some more advanced topics we also want to cover back to the drawing board approach and look at BIM through new eyes. While there is a lot of enthusiastic industry discussion around BIM, it is time to take a step back and appreciate the building blocks that must be learnt to take this forward.”

Pan-industry understanding of BIM from the private sector client, through to the designers and constructors, and then the facilities managers and operators responsible for managing the buildings is the next hot topic to be addressed. “There is still a

Continued overleaf..

Look out for



The National Federation of Roofing Contractors (NFRC) will be returning to host the Roofing Pavilion for the second year running. Following the success of last year, the Pavilion has increased in size and will feature more of its Supplier Members. It will be supported by 22 companies surrounding an NFRC networking lounge (stand N5031)

enq.152



Ecological Building Systems (stand S6042) are sole suppliers in the UK and Ireland of pro clima; airtight & windtight membranes, tapes and seals; GUTEX wood fibreboard; CALSITHERM Climate Board & Thermo-hemp Insulation. Their technical expertise and leading range of ecological products provide the highest specifications for diffusion open, healthy, low energy sustainable buildings.

enq.153



Light a fire in a **Tulikivi** for just 2 hours and enjoy gentle radiating heat for 24 hours. Using the incredible heat-retaining properties of soapstone, coupled with innovative technology, heat from a fire is stored rather than being lost up a chimney. Visit Tulikivi on stand N3170 at Ecobuild and find out more.

enq.154



large gap in knowledge at the manufacturer and FM level which desperately needs addressing", said Chapman.

"There are many critical elements of an FM's role for example which should be fed into the initial project outlines. For collaboration to happen we must close the loop – from cradle to cradle the whole industry should be brought on board."

Adoption of BIM by small architectural practices will also be headed up by the Nation Building Specification and will take the form of real life case studies of small practices who have

made the investment in BIM and made it pay for itself. Covering the significant commercial benefits to adopting BIM, the session will give architects and designers access to technology, support and solid advice about ways of managing their investment in BIM.

The final piece of the jigsaw to be covered at Ecobuild is standardisation of BIM. One common approach in terms of the levels of detail and legalities required at set points in a project. This will be a key area that Government will focus on over the next six to 12 months so Ecobuild is in a great position to disseminate this information and help the wider BIM community understand how it applies to them.

Separate to the main conference which is set to stimulate debate around construction's macro issues, Ecobuild's seminar programme delivers practical and applied information focusing on the key issues for sustainability professionals.

Set to cover a plethora of important topics in an interactive and engaging format, Ecobuild also reveals today a selection of its sessions.

Here is a snapshot of some of the case study-led sessions you'll want to check out:

- Government Soft Landings implementation – Case study on the Ministry of Justice headquarters refurbishment project
- A retailer's perspective on health, productivity and wellbeing from Marks and Spencer
- Lighting design for wellbeing – healing environments for short-term and long-term care from Philips Lighting University

Ever popular sessions on the likes of Passivhaus will also feature including an overview from the University of Leicester Centre for Medicine on scaling up Passivhaus to deliver the university's low-carbon ambitions.



In other show news...

The Big Innovation Pitch

Check out the very latest solutions at The Big Innovation Pitch; a joint initiative between M&S and Ecobuild aiming to unearth a true sustainable innovation across Ecobuild's 800+ exhibitors.

The final heat culminates on Ecobuild's show floor as finalists participate in a live pitch to an expert judging panel including senior representation from M&S and other leading industry voices. M&S will work with the winning company to investigate applying the winning product or service in its buildings.

Ecobuild has built its reputation upon world-class learning and development offered free to its growing community of 43,000+ professionals from across the sustainable built environment.

Product Innovation

Immerse yourself in innovation at Ecobuild 2015 – the show is split conveniently into two main sections; Sustainable Design & Construction and Energy.

In Sustainable Design & Construction, you will discover hundreds of new products, from magnetic plaster, heat reflective paint and vertical forests, to the very latest



Where:
London ExCel

When:
03-05 March

vacuum insulation panels and LEDs producing eight different lighting effects.

In Energy, check out the latest biomass boilers which can burn up to three different fuel types simultaneously, a solar carport, brine-water ground source heat pumps and the first commercially available micro fuel cell for domestic use.

Get your complimentary ticket today by visiting www.ecobuild.co.uk

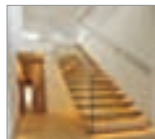
More to look out for...

Contenur is one of Europe's leading manufacturers of underground refuse systems (URS) – ideal in today's modern urban environments where space is at a premium and image is key. Come and visit stand **S1092** to find out more and learn how smart bin technology is driving change in our cities.



enq.155

CANAL Architectural will be presenting a bespoke range of new architectural staircases and balustrades incorporating contemporary materials including glass, stainless steel, timber and brass. Visit **CANAL** at stand **S4026** and meet the architectural team working in both residential and commercial environments.



enq.156

The A. Proctor Group will be exhibiting (stand **N6036**) the benefits of both airtight membranes for walls (Wraptite System) and breather membranes for roofs (Roofshield). Wraptite is a low-resistance vapour permeable air barrier wall underlay, which is durable, flexible and lightweight, allowing for easy installation. Roofshield also complies with the latest BS 5534 guidelines.



enq.157

Dura Composites (stand **S3070**) manufacture and supply eco-friendly timber composite decking, cladding, pergolas, cabanas and balustrading. All products look and feel like natural wood, are UV stable, require minimal maintenance and won't splinter, rot or warp throughout their 25 year design life expectancy. All products are available as FSC® 100 per cent certified.



enq.158

The Electric Boilers Company (stand **N6152**) together with Fiamma have created an innovative solution for providing central heating and hot water. Elektra Boilers guarantee saving consumers the time and hassle that gas boilers normally entail by eliminating carbon monoxide, condensate, servicing and the need for gas safe certificates. Installation packages are also available upon request.



enq.159

Dural UK Ltd (stand **S4000**) recently supplied an order for 160 metres of Speckled Effect Expansion Joints to SureSet UK Ltd for their installation at the Garden Terrace at Cheltenham Racecourse. Dural colour matched the epoxy resin within their Expansion Joint to the chocolate coloured Permeable Resin Bound Paving laid by SureSet.



enq.160

Midland Lead needs you to help bring lead sheet into the 'modern world'! Not only because lead has a superb green performance, but because our NEW lead sheet cladding system is ideal for creating eye-catching facades in contemporary projects. Visit the company at stand **N4033** and see its NEW cladding prototype.



enq.161

Rational manufacture energy saving timber and aluminium clad timber windows and doors of premium quality in terms of both comfort and security. It has developed and manufactured windows and doors since 1954 and today its product range covers almost any imaginable need or architectural style. Visit the company at Ecobuild stand **S3050**.



enq.162

Polypipe's ventilation systems at Ecobuild



ecobuild stand no N3162

Following the recent launch of a number of innovative new products, **Polypipe Ventilation** will be exhibiting its full range of energy saving Domus and Silavent ventilation products for the domestic and light commercial markets at this year's Ecobuild. Products being launched at the show include Silavent Sapphire intermittent extract fans and Decentralised Mechanical Extract Ventilation (dMEV) units plus two new patent pending additions to the company's Domus range of ducting systems in the form of high efficiency Green Line 90° bends and a plenum with integral flow control device. Polypipe's patented Domus Thermal duct insulation range will also feature on the stand.

enq.163

Epwin Group steps back in time at Ecobuild



ecobuild stand no N2080

Epwin Group will be proving the diversity of low maintenance building products at Ecobuild 2015 with a display of housing through the ages. Products from across the group will be used to recreate property styles from the Post-war, Victorian and Tudor eras. In contrast, a modern facade will represent a typical 21st century dwelling. Both thought-provoking and informative the stand will feature four houses each designed to emulate the style and finish of a bygone era while also showing how the products can be used in the refurbishment and renovation of period buildings. Inside each property infographics and digital displays will describe the individual components used to create the house.

0121 746 3700 www.epwin.co.uk

enq.165

Ancon launches 'Acoustic Range' at Ecobuild



ecobuild stand no N3090

Ancon, specialist in the design and manufacture of high integrity steel structural fixings, will introduce its new Acoustic Range of cavity wall ties and shear load dowels at the UK's leading sustainable construction event, Ecobuild 2015. The new Ancon Acoustic Dowel is designed to transfer shear load and allow essential movement at joints in concrete frames, while also reducing impact sound through a building by isolating adjacent concrete elements. The stainless steel Ancon dowel locates in a sound damping sleeve that de-couples components such as stairs from the main structural frame.

0114 275 5224 www.ancon.co.uk

enq.164

New Green Floorzone heads to Ecobuild



ecobuild stand no N6020

An updated version of the award winning Green Floorzone solution will be unveiled at **Flowcrete UK's** stand during this year's Ecobuild. The environmentally friendly floor build up has been revitalised and refreshed with new systems that boast enhanced green credentials and exciting design possibilities.

The three elements of the Green Floorzone (underfloor heating, screed and resin finish) have all undergone a makeover. The stand will feature a life-size, cut-through model that allows visitors to see each system close up and find out how they work together underneath the floor's surface.

01270 753000 www.flowcrete.co.uk

enq.166

ICYNENE

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ecobuild stand no N3018

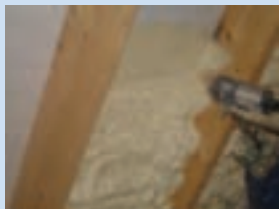
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enq.167



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enq.168

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ecobuild stand no S3070

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Smart to unveil Alitherm Heritage Range



ecobuild stand no N2010

Commercial systems specialist **Smart Architectural Aluminium** is unveiling a number of new products at Ecobuild. Featuring prominently will be three additions to its proven Alitherm Heritage range, with the launch of new pivot and tilt & turn window options as well as a new double door.

Alitherm Heritage's thermally-broken windows are ideal for sensitive planning areas and for renovation and refurbishment projects, and with a 'B' Window Energy Rating, they deliver the perfect combination of elegant aesthetics and outstanding thermal performance. Both door and window ranges are available in either single or dual polyester powder coated finishes, and the windows have been weather tested in accordance with BS6375: Part 1.

Visitors will see the full Alitherm Heritage range, with the new pivot and tilt & turn windows being displayed in an arched-head format – a design commonly found in buildings with steel windows and which can only be replicated by Smart's Alitherm Heritage range. The display will also showcase the Alitherm Heritage window in an art deco, curved on-plan setting, as well as the new balcony doors.

01934 876 100 www.smartsystems.co.uk

enq.170

Specflue to launch next generation of heating interface units



ecobuild stand no N6140

Specflue will be launching the next generation of heating interface units (HIU) on Stand N6140 at Ecobuild 2015.

Manufactured by Thermal Integration and distributed by Specflue, the new, intelligent HIUs have been designed for better performance and ease of use, while delivering all the same benefits of the traditional heating interface unit. Built using the latest technology in embedded electronics, full features will be revealed at the show, where visitors will also have the opportunity to preview one of the new units.

The units include a range of innovative digital functions for improved control of hot water and central heating in properties connected to a district heating system using a central boiler. The new tools will enable greater efficiency and management of a unit's functions, such as temperature, pressure and flow rates.

As well as the opportunity to talk to representatives from Thermal Integration, developers and specifiers visiting stand N6140 will also be able to chat to the technical team behind Specflue's renewable heating range, which includes thermal stores, solar panels and pellet stoves, boilers and cookers. For further information, visit www.heatweb.com.

0800 9020220 www.specflue.com

enq.171

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ecobuild stand no S1092

enq.172

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ecobuild stand no S6042

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enq.173

Kemper System to showcase at Ecobuild

Liquid waterproofing specialist Kemper System will be showcasing its comprehensive range of BBA-certified Kemperol liquid roofing and waterproofing systems on stand S3090 at this year's Ecobuild (3-5 March), along with its Stratex warm roof and KemperGro green roof systems.

The only cost effective, solvent-free and completely odourless cold liquid applied waterproofing system available in the UK, Kemperol 2K-PUR will, once again, take centre stage on Kemper System's Ecobuild stand.

Around 80 per cent of the applied polyols (or resins) in Kemperol 2K-PUR are obtained from the seeds of the tropical castor plant (*Ricinus Communis*), a renewable resource. Perfect for use on sustainable construction projects and ideal for live projects on occupied buildings, such as schools, hospitals, food factories or office buildings, Kemperol 2K-PUR allows work to take place without the need for evacuation or closure, avoiding the disruption associated with the strong

odours and fumes from many 'low-odour' or solvent-based products.

Stratex from Kemper System will also be on show at this year's Ecobuild. An integrated warm roof that offers exceptional performance, Stratex is supplied as a complete system of matched components – vapour barrier, insulation and waterproofing. It is as equally suited to concrete, timber and metal decks on new build projects as it is to refurbishing and upgrading existing roofs. Stratex is also ideal as a complete warm roof solution below an extensive green roof.

Kemper System's KemperGro green roof system will also be among the products on show at Ecobuild, bringing together a unique combination of recycled, renewable and sustainable components to provide a complete waterproof roofing and green roof system with a single source specification. Designed to provide a solution to meet local climatic conditions, aspect, biodiversity and specifier preference, KemperGro can be custom-specified to meet any requirements.

Stuart Hicks, UK marketing manager of Kemper System comments: "Our product range is designed



ecobuild stand no S3090

primarily for use in new build, maintenance and refurbishment projects. Kemper System's waterproofing and surfacing products have protected billions of square metres of roofs around the world over the past 50 years, including some of the world's most important landmarks, iconic buildings, public and commercial properties."

01925 445532 www.kempersystem.co.uk

enq.174

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enq.175

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ecobuild stand no N2080

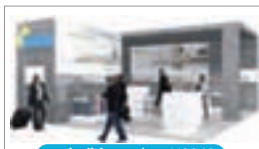
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enq.176

Schöck launch Building Physics Handbook



ecobuild stand no N3040

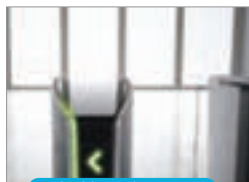
Pick up a free copy of the new *Building Physics Handbook* on Schöck's Ecobuild stand. It deals with various aspects of thermal bridges in buildings; the product solutions available and how they meet demanding codes and regulations. All based on independent performance testing, to guarantee you "verifiable thermal break technology you can trust".

Schöck features its unique Cool Fridge Model. See and feel a thermal break in action by simulating the effects of thermal break elements in a realistic environment. Products on show are the increasingly UK specified premium Isokorb solution – the KXT and the tried and trusted Isokorb types K, KS and KST.

01865 290 890 www.schoeck.co.uk

enq.177

Boon Edam launches access control barrier



ecobuild stand no N2050

The ever changing business world has seen traditional 9-5 working days being replaced with a twenty-four seven culture. With this, a new view on building security is required as it becomes increasingly difficult to keep track of who is in the building, where and when. Using new technologies and premium materials, Boon Edam

has developed the New Speedlane Lifeline Series, an innovative and highly customisable security barrier for access control. The new product range, which includes the slimmest security barrier in the industry, consists of three models, the Slide, Swing and Open, each of which are available in a variety of options.

01233 505 900 www.boonedam.co.uk

enq.178

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Saniflo exhibits at Ecobuild



Saniflo Sanicubic XL

ecobuild stand no N7141

One of the leading names in the plumbing and drainage sector, **Saniflo**, has added its name to the list of exhibitors attending this year's Ecobuild, stand number N7141. This is the first time the company has booked its own stand at the show; a decision that was taken following the launch of the company's latest product, the Sanicubic XL.

This pumping station – which can handle 40m³ of grey water waste per hour – offers the company a real opportunity to provide waste solutions for large, commercial projects and the Ecobuild show provides the perfect platform to showcase not only the new unit, but also a wider range of Saniflo products.

0208 842 0033 www.saniflo.co.uk

enq.179

Synseal anticipates another successful show



ecobuild stand no N3000

Synseal will be exhibiting for the third year in succession at this year's Ecobuild, which is taking place at the ExCeL exhibition centre in London's Docklands on 3rd-5th March. The objective will be to demonstrate the diversity of Synseal group window and door product solutions with a focus on true innovation and also brand solutions

following the recent acquisition of Sheerframe and Masterdor. Featured at the show on stand N3000 will be Synseal's latest WarmCore folding sliding door which incorporates a radically different product design approach to create a new high performance fenestration framing solution: "warm aluminium".

01623 443200 www.synseal.com

enq.181

Nu-Heat showcases acoustic UFH solutions



ecobuild stand no N

Nu-Heat will be showcasing its range of acoustic UFH solutions at this year's Ecobuild. The company offers several acoustic UFH systems that have proved popular in the commercial sector, helping specifiers to comfortably meet acoustic requirements with minimal height build-up that also incorporates a luxurious and efficient heating system in one single solution. Nu-Heat's innovative acoustic range includes: acoustic UFH solutions that comfortably exceed Part E; systems that are simply installed directly over a level screed section or structural working deck; and low height acoustic solutions, saving around 70mm compared to typical acoustic batten solutions.

01404 549770 www.nu-heat.co.uk/acoustic

enq.180

Technology plays an important role



ecobuild stand no S6105

Technology continues to play an increasingly important role for architects and a successful website can make the process of sourcing products simpler and more instantaneous. In January, **Long Rake Spar** launched a new trade only website building upon its experience as an aggregate supplier to some of the UK's largest projects, further strengthening its customer focus. The new site has been specifically engineered to make materials easier to locate as well as providing succinct technical data and performance values on all of the products. The website has been developed to aid specifiers by being accessible on a range of devices, allowing to it be accessed on the move on a day to day basis.

01629 630133 www.longrakespar.co.uk

enq.182

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ecobuild stand no S4000

enq.183

Johnson & Starley at Ecobuild



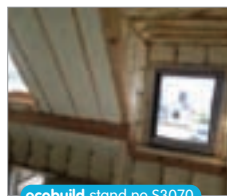
ecobuild stand no N3092

Johnson & Starley will highlight its comprehensive range of highly energy efficient heating and ventilation solutions. The company has been at the forefront of some of the industry's most significant recent innovations and Ecobuild 2015 will give visitors the opportunity to see all these products "under one roof". Heating innovations such as the QuanTec gas boilers, including the QuanTec HR28C with integral PFGHR (Passive Flue Gas Heat Recovery) retain the same size as a standard boiler. The comprehensive range of WarmCair high efficiency condensing Warm Air Heaters is now also being widely specified for new and refurbishment projects.

01604 762 881 www.johnsonandstarley.co.uk

enq.184

Greentherm Solutions at Ecobuild



ecobuild stand no S3070

The Icynene Insulation System from Greentherm is a soft, flexible, breathable, foam insulation and air barrier system. Sprayed as a liquid Icynene expands to 100 times its initial volume in seconds. Icynene's unique formulation sets it apart from other insulation products offering many advantages over traditional insulation materials and more modern alternatives. While all materials

of equal thermal resistance perform identically under laboratory conditions the same is not true in real life. Icynene contains no HFC's, CFC's HFA or HCFC's and it remains soft and flexible accommodating any normal expansion contraction or movement within a building.

enq.185

Urban design at Ecobuild



ecobuild stand no N6075

The trade association **Interpave's** stand at Ecobuild celebrates the transformative power of inspired hard landscape in our cities. It focuses on opportunities for innovative uses of water in urban design, presented by new government requirements for SuDS and enabled by concrete block permeable paving. Sustainable drainage (SuDS) and concrete block permeable paving are essential to help fight flooding. But they can also form an integral part of inspired urban design, which government now acknowledges with its new approach to implementation using the planning system. This move away from dedicated drainage legislation signals a new opportunity for architects, master-planners and other designers to take the lead in using multi-functional SuDS as an integral part of development design. Interpave also showcases the latest, innovative hard landscape designs with all types of precast concrete paving and kerbs, meeting the widest sustainability criteria. Join Interpave at Stand N6075 on the Concrete Pavilion (next to the North Arena) from 3 - 5 March to find out more about SuDS and urban design, and enjoy a free bottle of water (while stocks last). Keep up to date with the latest inspirational hard landscape case studies and guidance on issues ranging from Sustainability to SuDS, at the Interpave website.

0116 232 5170 www.paving.org.uk

enq.186

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ecobuild stand no S3050

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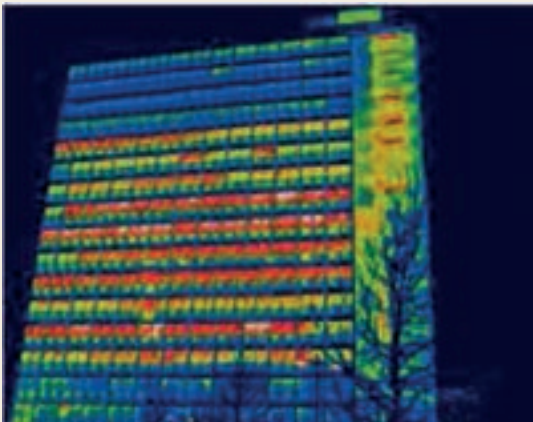
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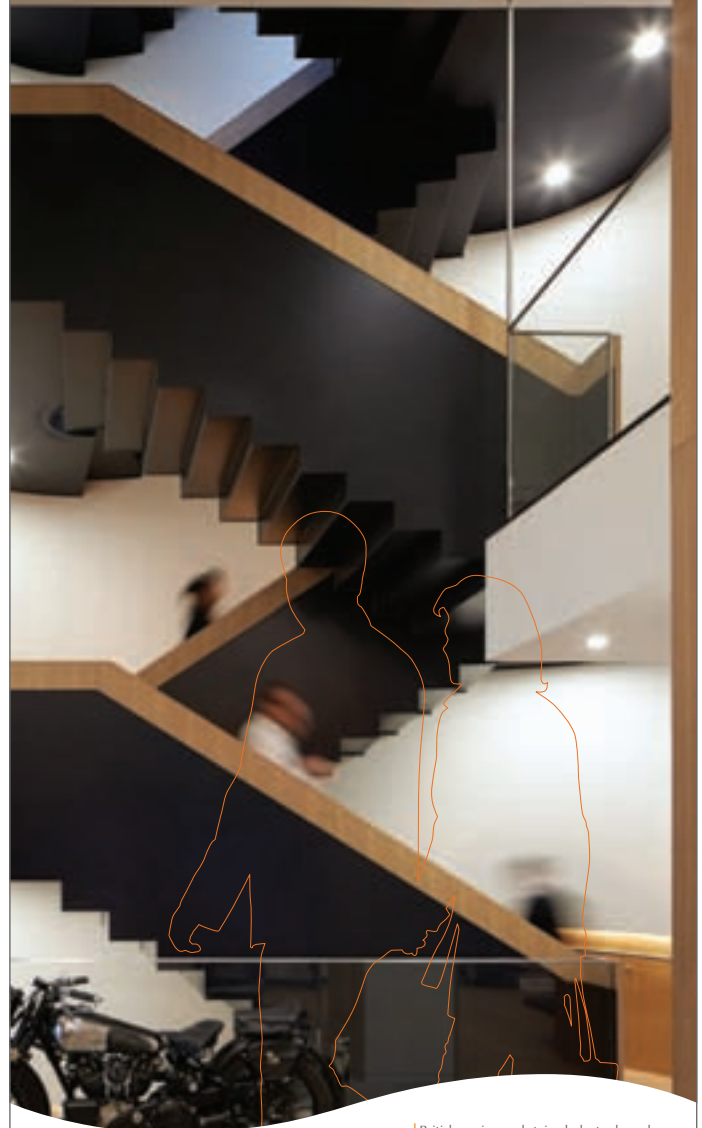
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Stand: S2072

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Roofing Pavilion returns to Ecobuild



ecobuild stand no N5031

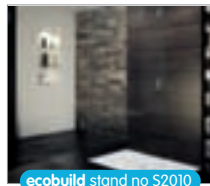
The National Federation of Roofing Contractors (NFRC) will be returning to Ecobuild from 3 - 5 March to host the Roofing Pavilion for the second year running. Following the success of last year, the Pavilion has increased in size and will feature more of its Supplier Members (manufacturers, merchants and service providers). It will be supported

by 22 companies surrounding an NFRC networking lounge. Attending Ecobuild has become the ideal opportunity for specifiers, main contractors and alike, to speak to the most influential UK roofing trade association and its members face-to-face in one location. Head to N5031 to find the NFRC lounge.

0207 448 3187 www.nfrc.co.uk

enq.191

Kaldewei at Ecobuild – stand S2010



ecobuild stand no S2010

At Ecobuild, Kaldewei will exhibit a selection of latest bathing and shower solutions all made from its unique and sustainable 3.5mm steel enamel. Appealing options for low level shower surfaces include matt organic colour finishes, virtually invisible anti-slip and a new model, Scona, offering unprecedented value for a wide range of projects.

The popular Puro bath is shown as an 170x75cm ECO model with reduced water capacity, while still offering superb levels of design and bathing comfort. For high-end projects, the Meisterstücke collection of three baths with seamless enamelled panelling provides the ultimate expression of luxury for freestanding bathing.

01480 498053 www.kaldewei.co.uk

enq.192

660mm

Depth 300mm

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- Fully double insulated
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- Eco & comfort mode

400mm

Depth 300mm

Elektra - N
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ecobuild stand no N6152

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enq.193

Wallbarn launches new products

Wallbarn is launching two new products at Ecobuild this year. **Aquaten Plus™** is a brand new ultra hydrophilic fabric for use in SuDS, green roofing, landscaping and rainwater attenuation. Its unique molecular make-up means it will store and hold a huge amount of water. Instead of swelling when it becomes saturated, the **Aquaten Plus™** fabric turns gel-like. The water is drawn out later as the surrounding soil dries out. **Aquaten Plus™** is ideal for stormwater management.



Aquaten Plus™

Suspended over horizontal structural surfaces, **Aquaten Plus™** will absorb the initial deluge, slowing down the time that the rainfall reaches the drains, taking a significant amount of water out of that drainage system and reducing flash flooding on hard surfaces. The captured rainwater evaporates into the atmosphere over time.

Unsure where the deck falls? Wallbarn has the perfect solution: 7mm rubber pads and ASP EXTRA

Suspended paving pedestals just got more adjustable. The height range of Wallbarn paving and decking systems has extended again. It announces the new 7mm rubber pad for paving and decking. This tough, flexible rubber disc was designed for areas with very low height thresholds, such as refurbishment and overlay projects. Drainage channels on the upper side ensure proper drainage. Detachable headpieces for paving or decking are inserted into the centre of the pad for perfect alignment.



7mm rubber pads for paving and decking

ecobuild stand no N6124

The EXTRA range is for adjustable pedestals. Available as ASP or TD supports, installers now have a height range from 85mm up to 380mm using only three separate units, taking the headache out of measuring falls on the roof. Ask for ASP EXTRA 85-135mm, ASP EXTRA 125-215mm and ASP EXTRA 210-380mm.

Visit Wallbarn on stand number S6124.
0208 916 2222 www.wallbarn.com

enq.194



ecobuild stand no N5031



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Carry on building



If the builder has one enemy, it is the weather. Bricklayers know that if conditions are freezing, they will not be working. However, with the **Durisol** block method of construction, work can continue as planned with no delays. With the Durisol walling units, no mortar is required. The blocks are simply dry stacked then filled with concrete to create the finished wall. Insulation is incorporated into the blocks at the manufacturing stage, obviating the need for any additional work on site. All

this combines to bring to the industry an extremely quick method of wall construction. No special skills are needed to construct the building using the Durisol system, and there is no need for specialist tools or equipment.

enq.196

Viessmann boilers launching at Ecobuild



ecobuild stand no N3130

Viessmann is launching three new renewable heating products at Ecobuild, stand number N3130, alongside other examples of its current products and future innovations. The Vitocal 300-A three-phase air source heat pump is designed for commercial properties requiring a maximum flow temperature of up to 65 °C. The manually-fed Vitotigno 300-C is ideal for space-restricted areas inside the home such as utility rooms. The ash box only needs emptying once or twice a year. Operation and system monitoring is easy via Viessmann's Smartphone Vitotrol App. The new Vitotigno 300-H commercial biomass boiler cements the Viessmann Group's coverage of the biomass market.

01952 675000 www.viessmann.co.uk

enq.197

Type B concrete waterproofing - A new online resource



Triton's new 'Type B' waterproofing website has been designed as the perfect resource for specifiers of watertight concrete structures. Triton supplies a complete range of products for structural waterproofing but this new site focuses purely on the company's BBA approved watertight concrete system that conforms to BS 8102 (2009).

Used primarily in the construction of basements, underground car parks, swimming pools and lift pits etc, the system comprises a unique chemical admix, products for sealing construction joints and products to make repairs.

There are direct links on the site from individual product sections to technical data sheets, detail drawings and case studies on Triton's main website. The enquiry form lands directly on the desk of technical staff who can help you with your project. Triton offers full system support, including liaison with the concrete batching plant, mix design, construction joint detailing, site monitoring as well as concrete repair systems and a warranty when required.

01322 318830 www.tybwatertight.co.uk

enq.198

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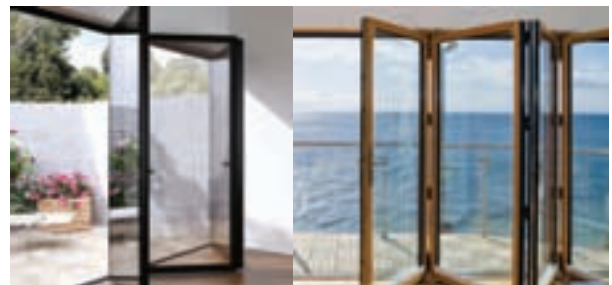
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The  Folding Sliding
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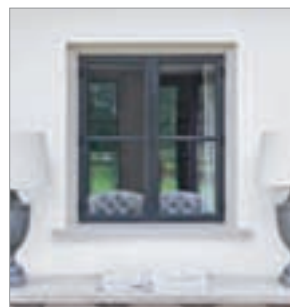
Made For Trade are offering SMART systems aluminium bi-fold doors from only £365 per leaf, plus an extra 10 per cent off for new customers. The in-demand supplier has been causing a stir in the industry in recent years, offering market-leading, quality products at unbeatable prices, teamed with excellent customer service. The company supply market-leading SMART bi-folds as well as Global conservatory roof kits and are now offering aluminium patio doors.

enq.325



Ecohome Windows now offers modern or traditional European Oak windows and doors with optional aluminium cladding. It uses laminated / stabilised timbers from sustainable sources (FSC). Osmo UV oil is used to protect the oak when aluminium cladding is not wanted. Manufactured in Poland, the company slogan exceptional quality, remarkable value seems fitting. It also manufactures period windows and doors, with full doorsets from only £490 + VAT.

enq.315



Architectural Bronze Casements make bespoke, handmade bronze windows, doors and screens. Bronze is an exciting and traditional alternative to the steel and aluminium windows generally available. Made from architectural bronze which is strong, long lasting and visually appealing, bronze casements offer fine sightlines, thermal efficiency and low maintenance characteristics. They are usually incorporated within stone, brick or timber openings.

enq.314



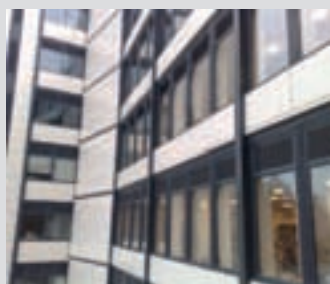
Tanums Fönster has been producing high performance wood windows and doors since 1949 with triple glazing since the 1970s. Tanums standard U-value is 1.0W/m²K, and also carries the stringent Swedish 'P' mark class C for severe exposure locations and buildings over eight storeys. Its extensive range included top turn, fully reversible window; side hung, outward opening windows and French doors; inward opening windows and French doors, and sliding doors.

enq.321



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enq.302

The Abloy Door launched



Security expert **Abloy UK** has launched the Abloy Door, a complete door-set that features a lock, lever, cylinder, and panic option, and is LPS 1175 SR2 certified by the Loss Prevention Council Board (LPCB). The Abloy Door boasts an EL160 Mechanical Lock Case with automatic deadlocking, Lever Handle Set, Protec2 Euro Profile Cylinder, and Panic Bar. Products certified to the LPCB's LPS 1175 SR2 standard

provide three minutes of resistance to determined attack by an opportunist burglar using a range of techniques including those that involve creation of noise. To help architects and specifiers, Abloy has created a *Security Doors Technical Information and Specifications guide*.

enq.303

Window specialists have solution



The owner of a 1901 stone terrace house can now remove and repaint her windows herself thanks to a successful renovation project by timber sash window specialists **Ventrolla**. Harrogate resident Jan Warhurst was fed up that every time she got the decorators in they painted over the sashes and got them stuck. With over 30 years experience, Ventrolla offers a tailored range of period window solutions. Their unique service includes draught-proofing with the Ventrolla Perimeter Sealing System (VPSS) and

fitting replacement double-glazed sashes that incorporate the patented Sash Removal System (SRS) for easy painting and future maintenance.

0800 0277 454 www.ventrolla.co.uk

enq.304

Concealed closers are an 'open and shut' case



"When it comes to good design, sometimes what you can't see is as important as what you can" that's the message from leading door and window control system specialist **GEZE UK**. In recent months, the company has seen a growing trend for the specification of concealed closers in order to maintain the aesthetics of design while ensuring

compliance with all relevant legislation. GEZE's range of concealed door closers, the Boxer, comes in a number of versions and is installed within the door leaf leaving only the guide rail visible when the door is open.

01543 443000 www.geze.co.uk

enq.305

Crittall in Fashion



The link between gentlemen's ties and steel framed windows may not be glaringly obvious but the two share one specific quality. Both are expertly crafted British products and it was this connection that has helped bring the two together in a prestigious building renovation in East London. The slender frames and consequent increase in glazed area inherent in

a **Crittall** window provided the maximum amount of natural light and so the decision to specify Crittall was not just purely aesthetic but also practical and functional. Glazed Crittall partitions were also specified internally to create a light-filled and spacious working environment with extensive views to the outside.

01376 530800 www.crittall-windows.co.uk

enq.306

Historic doors automated with invisible Tormax operators



As part of a £3 million restoration at Hexham Abbey, **TORMAX** was contracted to install three advanced iMotion underfloor swing-door operators, successfully automating key entrances without affecting the aesthetics of the interior. Designed in-house, iMotion 1401 operators represent one of the most cutting-edge solutions on the market today, combining exceptional reliability with minimum maintenance. Housed in a steel box located within the floor, invisible iMotion 1401 door drives have been installed in buildings of historic importance worldwide. TORMAX worked with Glass Design Solutions and architects Purcell to automate a traditional external entrance, as well as two full-glass internal doors. "It was essential that the newly renovated areas could be easily accessed by all members of the public," comments Toni Bush, Education and Community Officer at Hexham Abbey. "However, we also wanted to preserve the historic features of each doorway. Underfloor operators was the ideal solution, allowing clear access whilst keeping pedestrian foot-traffic moving smoothly at busy times." TORMAX iMotion operators are unique in that the powerful synchronous motors do not have any abrading parts to cause friction wear, such as brushes or gears. This cuts maintenance down to absolute minimum and makes installation under the floor a practical reality.

enq.307

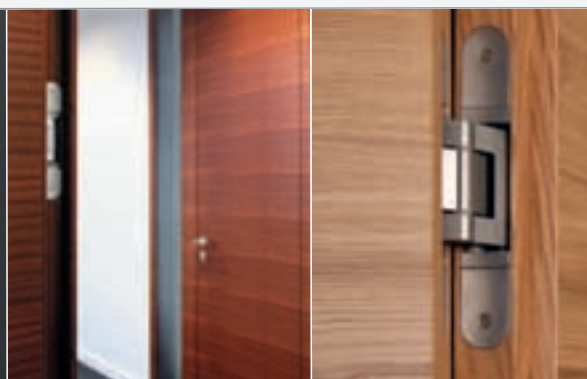
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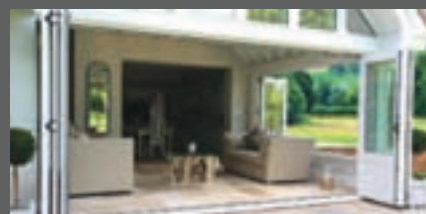
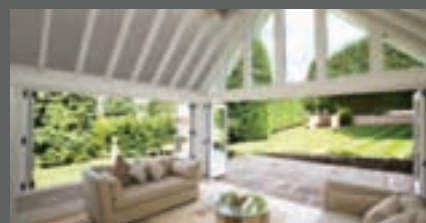
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Lightweight steel roofing popular for conservatories



The conservatory: a staple of the modern British home that is traditionally regarded as a summertime space. During the winter however, conservatories can be regarded as the room where heat escapes causing home energy bills to rise - not ideal in a world where annual price increases have become expected

'Metrotile Lightweight Steel Roofing weighs up to one seventh of slate or clay tiles and, as such, has seen a surge in popularity within the conservatory industry on both new build and refurbishment projects'

This insulation issue stems from the frame of the conservatory being unable to support a full roof installation, with the weight from traditional roof tiles such as slate or clay causing problems for both the foundations and the structure.

Metrotile Lightweight Steel Roofing weighs up to one seventh of slate or clay tiles and, as such, has seen a surge in popularity within the conservatory industry on both new build and refurbishment projects. Taking aesthetic cues from so-called traditional roofing materials, yet applying them to a truly modern material, Metrotile is a durable, sustainable and highly secure roofing solution that offers far greater benefits than you would expect from a single roof tile. Thanks to the weight reduction offered, battens and a full layer of insulation underlay can be installed, turning the conservatory into a space that retains heat all year round.

Add a forty year weatherproof guarantee plus a full range of accessories including Velux windows into the mix and you can why Metrotile is specified by UK conservatory manufacturers and a premier choice for UK contractors to use for conservatory renovations.

Peter Evans, Partner for roofing contractors AP Roofing, has worked on a number of Metrotile conservatory roof installations: "Whenever we refurbish a conservatory in this manner, we always get a great response from customers. They always tell us that they can use the conservatory all year, because it's warmer in the winter and cooler in the summer. The reduction in utility bills is also a popular outcome".

The light weight of each Metrotile profile ensures other benefits too, including the ability of a rapid installation. Lower weight means more tiles can be moved at one time, yet once installed a Metrotile roof offers unmatched protection against vandalism and the elements; as Metrotile is an international product, it has been cyclone tested in Japan and wind tested in California. Security is not a concern with a Metrotile roof. If you are interested in utilising Metrotile Lightweight Roofing for your building project, visit the company's website.

www.metrotile.co.uk
01249 658514

enq.311





Spectus Window Systems provides innovative, class leading window, door and curtain walling solutions to the construction industry nationwide. February has seen the launch of its new Specification Guide that is available on the Spectus website. This specification guide details its product offering and its support services in order to assist you in finding the best solution. Whether your next project is refurbishment or new build look no further than Spectus.

enq.326



Todd Doors is one of the UK's leading supplier and distributor of quality timber doors. Striking Alzira Walnut doors were supplied throughout the award winning Millgate Homes development in Surrey. The floor-to-ceiling bespoke doors were imperative to the design of the house. An impressive sliding pocket door system and four folding, sliding doors spanning the entrance hall, together with a bespoke matching entrance set completed the look of this opulent home.

enq.310



Leading manufacturers of Architectural Ironmongery and Hardware **SIMONSWERK** UK have introduced a comprehensive range of solid brass edge pulls. With its simple modern design these new edge pulls are ideal for use on drawers, cabinets and various door types and will complement any style of furniture and room. The edge pull series is available in standard or bespoke lengths in a wide choice of finishes including an abrasion and tarnish resistant PVD.

enq.308



Kloeber UK Ltd is a specialist manufacturer of bifold doors in timber and aluminium and advanced glazing solutions in timber, aluminium, composite and coloured uPVC. The full Kloeber range includes complementary designed sliding doors, windows, glazed screens, French doors, contemporary and traditional entrance doors, single doors, room dividers, glazed screens, fixed panels and roof lights. Technical consultations, surveys and a full installation services are available.

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enq.316

Brand new TS Collection brochure



Tradesmith, one of the South East's leading trade fabricators of windows, doors and conservatories is marking 22 years in business by rewarding its loyal customers with a brand new retail brochure for homeowners. The glossy catalogue displays the range of products that make up Tradesmith's TS

Collection brand, fabricated using the renowned Halo profile from the VEKA UK Group. As a Halo approved fabricator, Tradesmith produces frames for a host of installers, ensuring its homeowner clients receive top quality products that deliver the excellent thermal, noise reduction and security performance expected of a VEKA UK Group company.

01282 716611 www.halo-uk.com

enq.317

Timber door canopies by George Woods



George Woods UK manufactures a large range of door canopies, all hand made in timber from sustainable forestry. It 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. Having a canopy prolongs the life of your front door, extends time between maintenance and adds value and appeal.

enq.318

Imaginative Faber Blinds solution for office



Redeveloped offices at 71 Victoria Street, London, by developers Bouygues feature innovative systems from **Faber Blinds**. Steve Marks, senior national contracts manager for Faber Blinds, said: "We installed our EOS 5-11 manual chain operated roller blind system

using a pre-specified screen fabric nominated by the architect," said Steve. "We were able to manufacture the blinds a little wider than usual. The late addition of the motorised roof light was also potentially a problem, but the flexibility of the control via an RTS switch system that we could give with the Faber 1800 Fabric Tension System, helped overcome that."

01604 766251 www.faberblinds.co.uk

enq.319

VBH offer mullion free solution



Hardware specialist **VBH** advises that timber double doors can now benefit from the new mullion free double door lock system from MACO. The system utilises two C-TS lever operated locks with vertical shootbolts, which combine to provide a secure central meeting stile with a smooth locking action. The lock on the master leaf locks into that on the slave leaf, but only after the slave lock has been thrown into its locked position, eliminating the risk of leaving doors only half secured. The master lock features solid steel hooks for excellent security, helping the lock to achieve a pass at PAS24:2012 and Secured by Design (SBD) approval.

01634 263300 www.vbhgb.com

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enq.301



In the last two years Howarth Timber Windows & Doors 150,000 sq.ft. plant has been the focus of significant investment in the latest state of the art machinery, so we can meet the demands not only of the largest national and regional builders but also the individual requirements of local property developers and self-builders. From the ultra-modern Storvik to the traditional Stormproof and Sliding Sash timber window ranges, Howarth can enhance your project.

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Urban Front design and make hardwood contemporary front passive house, internal feature and garage doors with steel reinforced cores, high security locks, security keys, and pivot or 3D hinges. All doors are made in the UK and exported worldwide. Urban Front's six timbers are European Oak, American Black Walnut, Iroko, Western Red Cedar, Fumed Oak and Wenge, but also available as a painted finish in any RAL colour. All of its doors are finished with stainless steel fittings.

enq.312



Established for over 20 years **Feature Architectural Fabrications** is a specialist glazing company, manufacturing a wide range of products suitable for both the commercial and domestic markets. The company's wealth of experience and expertise allows in-house designers to work closely with clients and architects, to engineer products from straightforward windows to complex glazed screens and curtain walling.

enq.316

enq.323



New universal telescopic system

P C Henderson, manufacturer of sliding door hardware systems, introduces Universal to its Telescopic range alongside the recently released Husky Telescopic system. Universal Telescopic is ideal for use with the Soltaire 120 system for top hung timber doors weighing up to 120kg. Telescopic systems allow all the doors to be linked together using toothed belt and pulley system so they move in a simultaneous action; they also incorporate the coveted ghost guide which keeps the area clean and free from trip hazards. In addition, the door panels can be neatly stacked into the wall cavity to allow for flexible open plan living. Extremely durable and corrosion resistant, Soltaire 120 has already made an impression on the market as a tried and tested quiet solution. Its superior features and quality such as anodised aluminium track and 316 stainless steel components are also suitable for external use.

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Soprema's Copper Art making waves

The Beach Retreat roof is a waveform design inspired by the coastal surroundings. Soprema's Copper Art single ply membrane was specified in order to respect the planning requirements of the conservation area and associated regulations together with planning policy guidance notes. All new developments in the area are required to aspire to the quality of design and execution related to its context. This area of special architectural interest and historic character demands the design for new buildings to enhance and maintain this special character by understanding and reflecting the positive design attributes. The selection of a single ply membrane manufactured with real copper particles, provides the aesthetic benefits of a traditional copper roof, but also the advantages of a modern waterproofing material, eliminating the risks associated with traditional roofing methods such as water ingress. Using Copper Art single ply membrane with Copper Art Standing Seam Profiles, along with a high level of workmanship enabled the conservation regulations to be achieved.

08451 948 727 www.soprema.co.uk

enq.201

Grand entrance at new Sainsbury's store



Stirling Lloyd has made a grand entrance with its Integritank structural waterproofing system at the new £60 million Sainsbury's supermarket in Wolverhampton city centre. Some 600m² of Integritank has been used to waterproof the Raglan Street store's main entrance from the main road which also acts as a podium deck over an underground building housing the supermarket's cash office and staff rooms. Main contractor, Kiernan Construction specified Integritank having previously used the seamless, fully bonded, cold spray-applied, rapid curing system on several other structural waterproofing schemes. Once cured, the integritank membrane was overlaid with paving slabs to complete the entrance walkway.

01565 633 111 www.stirlinglloyd.com

enq.202

Strictly dry room



Substantial flooding to a subterranean hall with dance floor resulted in severe damage to the walls and floor, which has been rectified by specialist contractor Oak Damp Proofing using materials from Delta Membrane Systems. Water had seeped through the junction of the wall and the floor, at the Bourne Hall Community Centre in Ewell, Surrey. Some 240 sq m of MS20 was used for the floor. This is a compression-resistant, durable dimpled sheet made from special high density polyethylene, and is suitable for use as damp proofing on walls and floors. The heavy gauge option has 20mm deep studs, and can be used in situations where extra drainage capacity is required, or a larger flow rate is needed.

enq.203



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Structural Waterproofing Design Strategies to BS8102:2009

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- The importance of BS8102:2009 "Code of Practice for Protection of Below Ground Structures Against Water From The Ground"
- Types of waterproofing systems used to protect structures internally and externally
- The importance of using a Newton Specialist Basement Contractor (NSBC) for design and installation who can offer a guarantee for their work

"On behalf of The British Board of Agrément I would like to thank you for the quality of your CPD training provided to a number of technical Project Managers and other staff members."

- Mike Wiseman Phd, British Board of Agrément



Watch the CPD here: www.newtonwaterproofing.co.uk/members



Newton Waterproofing Systems

Waterproofing a New-Build Basement, Surrey

This large new-build property in Surrey had a very large basement area which needed to be waterproofed to meet BS8102 requirements, the British Standard for the Protection of Structures Against Water From the Ground. BS8102 recommends that all waterproofing is maintainable and repairable. Newton System 500 was the ideal solution for meeting these requirements, and the combination of cavity drain membranes, drainage and pumps ensured that water was depressurised and removed from the structure. The project further benefited from the Newton Specialist Basement Contractor's extensive insurance backed guarantee.

"Newton System 500 is the best system available to waterproofing professionals and was ideal for this project" - Ian MacLennan, MacLennanUK

Debunking the myths of modular construction

Modular buildings are still something of an unknown quantity, both inside and outside the construction industry. Wernick Group Marketing Manager, Leigh Fennell discusses some of the more prevalent misconceptions about modular offsite construction

“Modular buildings are low quality”

Many people’s perceptions of modular buildings stem from their experience of old leaky prefabricated classrooms. These were often supposed to be temporary but often had to be endured for use by schools across the country for decades. Before I worked in the offsite construction sector this was certainly my own opinion. I have now come to understand this presumption that modular buildings are of low quality is a misconception that is easily dispelled.

Firstly, modular buildings follow the same set of regulations as traditional construction and must therefore meet the same standards of quality. Building modules are manufactured in tightly controlled factory environments meeting ISO 9001 quality management standards and often ISO 14001 environmental standards.

Another comment I would make on this point is that many the materials used in modular building, such as the steel frame, are exactly the same materials used for a traditional build. The only difference being that the construction takes place off site in a more controlled factory environment.

As testament to their quality many offsite construction companies will now offer a 25 year warranty as standard with their buildings which also have an expected design life of over 100 years!

“Modular buildings are temporary structures”

While modular buildings can be used as a temporary solution the quality of build, as mentioned, means they are built to last. Most people will only see modular buildings in the role of short-term accommodation provided while a new development is under construction or deployed following an emergency such as a fire or a flood, leading to the understanding that these buildings are always temporary. In fact, these uses reveal nothing about the quality or permanence of the building, but how quickly they can be installed.

Just like a traditional building, modular buildings are steel-framed in construction and can provide permanent accommodation solutions, including purpose-designed schools,



Hillingdon Cycle Circuit

hospitals, office blocks, police cells and even nuclear power station accommodation. The end product is often a building that its hard to imagine was manufactured in a factory.

“Modular construction is an unproven concept”

Often in the media, modularisation is framed as a new innovation in construction that could change all future building projects. This is unfortunately not quite the case. The first recorded use of modular buildings as we know them today was in the 19th century. Some leading off-site manufacturers have been in business for over 80 years and there are many examples of their buildings still standing today that were manufactured many decades ago.

Continued overleaf..

‘Modular buildings are produced in a controlled factory environment, in which all waste including steel, aluminium and timber is separated for recycling with almost nothing ending up as landfill. The process is not subject to bad weather, and subsequent delays this may cause’



St Giles On The Heath School

“Cost savings of offsite construction (when compared to traditional construction) are greatly exaggerated”

It’s commonly stated by offsite specialists that a modular building is far more economical when compared to traditional construction, with a saving of around 50 per cent achievable. Let’s look at the facts. A report by Laing O’Rourke, who developed a modular system with an engineering company, suggested it could build a 1,300 pupil school for £14.3 million, £6 million cheaper than an equivalent school under the Building Schools for the Future Programme (BSF).

The fact that much of the modular construction process is carried out off-site in a controlled factory environment means projects can be completed much faster than traditional construction methods with no delays due to bad weather.

In many instances a more efficient design with modular also means maintenance costs are reduced.



Uppingham Community College

“Modular Buildings aren’t as sustainable as they appear”

By process, offsite construction is also far more environmentally friendly when compared to traditional construction. This greatly reduced programme inevitably minimises the impact on the environment.

Modular buildings are produced in a controlled factory environment, in which all waste including steel, aluminium and timber is separated for recycling with almost nothing ending up as landfill. The process is not subject to bad weather, and subsequent delays this may cause. As the time on site is reduced, so is the impact of the construction process on the site and surrounding environment. Modules can also be designed to a specifically optimised size in order to match the supplied sizes of the building materials, further reducing the amount of waste.

Typically, the end product is a building, which achieves an Energy Performance Asset rating (EPA) of B, as standard. An ‘A’ rating is easily achieved when sustainable options, such as solar panels are incorporated.



Stansfield Centre

“Modular buildings are all the same”

Ok, so it’s clear that a modular construction is a sustainable process that lowers cost and offers shorter and more dependable build programmes, but does the modular approach have limitations in building design? There’s no escaping the fact that modular buildings lend themselves to standardisation, and it is obviously more straightforward to manufacture identical units than a variety of different ones. However, clients are increasingly looking for buildings that cater to their specific needs and are quite understandably less interested in a ‘one size fits all’ approach.

In terms of providing ‘traditional’ finishes, we are increasingly being asked to provide extensions to existing buildings while maintaining a continuous external appearance. This can be done so effectively that often you cannot tell which is the old traditional building and which is the new modular extension.

While modular specialists can offer a bespoke design and build service, increasingly architects are bringing their designs to life in a modular environment. I believe good architects are entirely capable of designing attractive buildings that use a high degree of modularisation. Many are already working with modular providers to great effect. Nothing speaks more loudly than the buildings themselves and I would encourage any architect to seek out the possibilities offered with offsite construction by reflecting on the finished product.

enq.207



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enq.209




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enq.210

Bison selected for Devon Jurassic Park



Bison Manufacturing's market-leading precast concrete units have been used in the creation of a new Devon visitor attraction. Working closely with main contractor Kier Construction, Bison manufactured and delivered 976m² of its 200mm deep Hollowcore slabs to form the first floor of the Seaton Jurassic Centre. Mike Nelson, sales and

commercial manager said: "We're thrilled to have provided our units for such an exciting project. By using precast concrete components, developers can help to ensure that construction timeframes are met, without the risk of adverse weather or low temperatures affecting the installation of structural elements."

01283 817500 www.bison.co.uk

enq.211

Sturdy shopfittings with Caberwood



Relied upon extensively throughout the building industry for many years, Caberwood MDF Pro from Norbord is a premium grade MDF with a uniform density across the board. It is ideal for creating bespoke, versatile shopfittings for any space. Suitable for straightforward machine and surface finishing,

and available in six standard sizes, it offers all the benefits of timber without the natural defects. It is ideal for most high quality paint and surface finishes including the application of paper foils and veneers. The product is easy to saw, drill, shape and rout without splintering or chipping. Caberwood's high quality fibres and internal bond strength mean that the product boasts superior screw and fastener compared to other types of panel product.

enq.212



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enq.216

Manor's MSCP testimony to Stirling Lloyd



The Manor's MSCP in Newcastle upon Tyne continues to demonstrate the importance of effective protection 25 years on from its initial refurbishment, thanks to specialists **Stirling Lloyd**. Built in the 1970s, this six storey, 583 space reinforced concrete structure was last refurbished in 1989. Manor's became one of Stirling Lloyd's earliest car park projects when the council specified three of its products; Metaset repair material, Decseal Waterproofing & Wearing Course and Safetrack HW skid resistant surfacing to protect some 20,000m² of car park decks and, 25 years later, the systems remain well bonded to the deck and continue to perform extremely well.

01565 633 111 www.stirlinglloyd.com

enq.217

Levolux hangs out at Highams Park



A mixed-use development at Highams Park in north-east London now boasts a collection of contemporary apartments and terraced houses, all fitted with custom sliding timber screening panels, courtesy of **Levolux**. Levolux engineered the sliding screening panels from Western Red Cedar timber, complementing the

timber fins it installed across the Tesco superstore's entrance and on several other residential buildings. The panels are fitted externally and perform three very useful functions for residents. Principally they create an effective and attractive privacy screen, by obscuring views into each apartment. In addition, they also allow variable shading of glazed openings to control solar heat gain and help to maximise daylight levels throughout each apartment.

enq.219

New X-Glass LED Media Facades



AET Flexible Space, specialist provider of under floor air conditioning systems has secured the exclusive distribution rights for the X-Glass LED product range in the UK and Europe. AET works with leading architects and developers and this product adds another dimension to the Flexible Space offering. With X-Glass technology, users

can create stunning visual media displays for digital signage, advertising and promotion in store front displays, restaurants, exhibitions, concerts and all branding opportunities. The products are ultra lightweight yet durable and displays can be constructed from standard size units or custom design.

01342 310400 www.flexiblespace.com

enq.218

USE Architects breathe new life into Hackney



USE Architects has transformed Mentmore Terrace in London's Hackney with a new residential building featuring an innovative facade with panels made from DuPont™ Corian® hi-tech surface supplied by **CD(UK)**. The panels that form the facade were fabricated and fitted by specialists **Urbana Exteriores** from Spain,

and have been installed using a Kiel fixing system to a Hilti frame. The structure also benefits from the installation of DuPont™ Tyvek® UV Facade, a version of the renowned advanced breather membrane, created to allow greater design freedom, reliable protection and enhanced energy performance for open-jointed facades.

0113 201 2240 www.cduktd.co.uk

enq.220

Introducing **ARP's** Rainfall Calculator -Available shortly for use with your PC or Tablet



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NVELOPE clads BREEAM excellent office

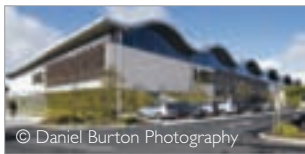


NVELOPE, the rainscreen cladding specialist has supplied its NV1 system to a recently built BREEAM Excellent rated office in Aberdeen. The vertical cladding support system has been applied to the five storey bespoke building, supporting approximately 3000 square metres of granite cladding.

Derek Morgan, of GLASS SOLUTIONS said "We have worked with NVELOPE on previous projects and not only do the systems look great, but you get extremely good value for money." Manufactured in the UK and developed using the highest specification alloys, NVELOPE products and systems are ideal for supporting a wide variety of facade materials.

enq.225

Kingspan Tarec® installed on flagship M&S



© Daniel Burton Photography

Kingspan Tarec® Kooltherm® FM Pipe Insulation was installed as part one of the most sustainable and sophisticated retail spaces in the country, Marks & Spencer Cheshire Oaks. Building services formed a central part of the building's low carbon

design and with the premium placed on aesthetics as well as energy performance; Kingspan Tarec® Kooltherm® FM pipe insulation was the natural choice. The next generation pipework insulation offers superior thermal performance, keeping pipe thickness to a minimum. It was installed on hot and cold water services throughout the building and to the fan coil units in the main food hall.

01457 890400 www.kingspantarec.com

enq.227

Ruukki products approved for specification



Manufacturer Ruukki Construction's expanded range of Sandwich Panels have recently achieved LPCB approval. Existing certificates have been extended to cover more products types and an additional certificate has been granted for a new portfolio of mineral wool panels. Ruukki Construction already have an established range of LPCB approved, mineral wool core and PIR core composite panels which, have been used on a variety of projects including supermarkets, distribution

centres and airports. The latest approval LPS1208 is a result of the investment placed into the portfolio of products available from Ruukki.

0121 704 7300 www.ruukki.com

enq.229

RMIG energy preserving building facade



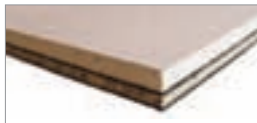
Precision perforated aluminium panels from RMIG have been used to create a dynamic facade and solar shading system at Denmark's first low-energy university. Sensors attached to each of the 1,600 screens measure outdoor light and heat levels and transmit the data to a small motor. This

automatically adjusts the screens to ensure that those using the building experience a dynamic change of light during the day and can enjoy a comfortable indoor climate in the rooms along the facade. The screens also feature a bespoke perforation pattern that works with their opening angle of 30 degrees to give the optimal balance of light and energy in and out of the building.

01925 839 600 www.rmig.com

enq.226

Acoustiwall goes into production



As the new home for Karma Acoustic products, CMS Danskin's Refurbishment Division has now started manufacturing Karma Acoustiwall at its Warrington facility. Karma Acoustiwall is the ideal solution for reducing

airborne sound transmission through the walls of existing properties. It is particularly applicable where original block, brick or stud walls have been converted into party or separating walls. Comprising a 15mm fire-retardant plasterboard bonded to a laminated acoustic layer, Karma Acoustiwall has a total thickness of just 30mm, meaning it provides exceptional acoustic insulation without encroaching significantly into the footprint of the property.

01925 577711 www.cmsdanskin.co.uk

enq.228

Kooltherm® FM – the premier choice



Kingspan Tarec® has always focused on providing specifiers, mechanical engineers and contractors with highest level of technical support, allowing them to get maximum benefit from the premium performance of its Kooltherm® FM Complete Pipe Insulation System. Now the company is going one

step further with the introduction of the new Kooltherm® FM Premier and Premier Plus Services, delivering clear advice and guidance at every stage in a project, from the initial specification, to site visits and certification. Kingspan Tarec® Kooltherm® FM Pipe Insulation is available as a freely downloadable BIM object from www.kingspantarec.com or the BIM Store website.

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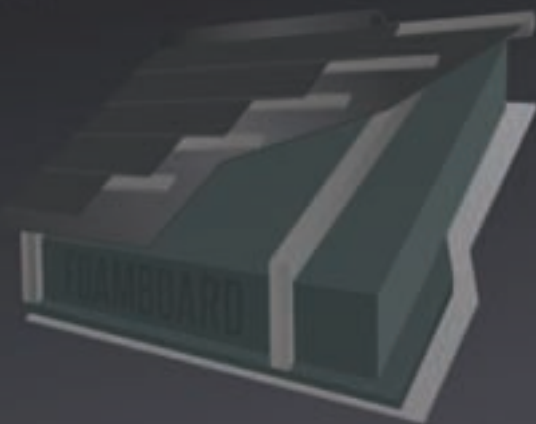
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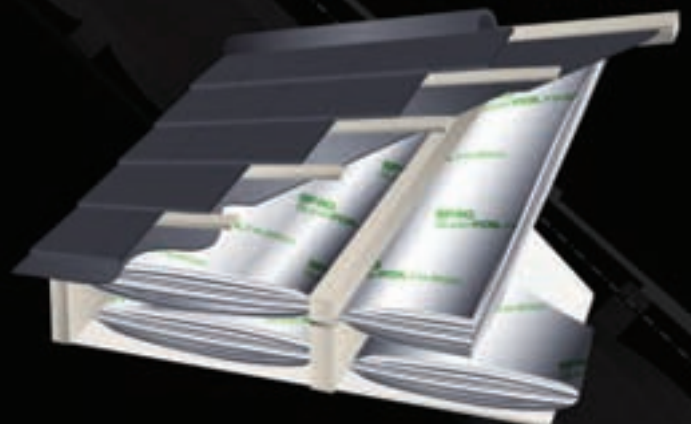
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enq.234

Open water community heating award



The pioneering Kingston Heights project, which sees 137 apartments and a hotel get renewable heating and hot water from the River Thames, has received further recognition by securing the 'Commercial Project of the Year' award at the National ACR Awards 2015.

Developer Mike Spenser-Morris was on hand to collect the award, alongside Russell Jones of **Mitsubishi Electric**. Here Mitsubishi Electric's advanced heat pump technology boosts the river water's low grade heat provided by the solar energy naturally stored in the river (and every open body of water) to the temperature required to provide all the heating and hot water for the flats and the hotel (as well as providing its cooling requirements too).

01707 282880 www.mitsubishielectric.co.uk

enq.235

Grand design cliff hanger for Kingspan



Situated just metres from a crumbling cliff face; Cefn Castell is definitely not your average three bedroom house but for owners Kay and Rob Hodgson, the spectacular location was everything they'd been looking for. The stunning property has been featured on the latest series of *Grand Designs*

and includes a number of **Kingspan Insulation** products on the roof, floor and walls. Kingspan Insulation's premium performance Kingspan Kooltherm K3 Floorboards and Kingspan Kooltherm K8 Cavity Boards were installed on the ground floor and exterior walls respectively, with Kingspan Thermataper TT47 LPC/FM fitted on the property's large flat roofs.

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Evinox energy packaged plant is perfect fit

Evinox Energy are working with Bowmite Electrical & Mechanical on a new mixed use development in Walthamstow that features a communal heating system serving 80 dwellings. Unity Place is located in the Blackhorse Lane regeneration area of Walthamstow. Evinox engineers provided design support and liaison with Bowmite Electrical & Mechanical and CHP suppliers to provide an energy efficient and cost effective solution for the LTHW system. The bespoke pre-fabricated skid for the central plant was designed and supplied, tailored to the project requirements and limited plant room space. This new scheme benefits from the installation of ModuSat FS heat interface units with integrated hot water tanks in each apartment, and a prefabricated skid for the central plant, which feeds the communal heating system. The prefabricated plant room skid includes Evinox ADI CD boilers, which provide a total output of 460kW, and feature excellent seasonal efficiency performance and extremely ecological combustion with impressive class 5 NOx figures of < 10ppm and CO around 47ppm.

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St Modwen & WDS call on Panasonic



Panasonic was called upon by Woodhouse Environmental Services Ltd to provide equipment for call centre giant WDS, to retrofit its busy offices with an energy-efficient heating, ventilating and air conditioning (HVAC) system. Working against strict time and space constraints, Panasonic's VRF systems coupled

with large ducted and wall mounted indoor units were specified for a quick, simple and energy efficient installation. Specifying Panasonic's VRF unit made for an all-round easy-to-use system, while its clever, innovative integrated technologies meant wasted energy was avoided and significant savings could be made on the building's annual energy bills.

enq.242

Shortlisted for Prestigious H&V News Award



Leading British ventilation manufacturer Vent-Axia is proud to announce that it has been shortlisted for a prestigious Heating and Ventilation News Award 2015. The Sussex-based company has been recognised in the 'Building Services Project of the Year' category for the Waste House project at the University of

Brighton that features a Sentinel Kinetic Plus Mechanical Ventilation with Heat Recovery (MVHR) system, which Vent-Axia donated and installed. Described as Britain's first house made almost entirely from thrown-away rubbish, the cavity walls are packed with materials otherwise destined for landfill.

0844 856 0590 www.vent-axia.com

enq.243

Complete potable pressure solution



The solution to low mains water pressure issues in residential buildings has been developed as a complete, compact modular package thanks to leading pump manufacturer DAB Pumps. Known as the NBB Booster Box, it pressurizes potable water in residential applications and can be set up and installed in a variety of ways to suit the needs of the building and its occupants. Its installer friendly, modular components include a WRAS approved 280 litre tank, choices of a

submersible or surface mounted pump, both of which can be fixed speed or more energy efficient variable speed pumps. The range also includes a twin pump duty standby option and a tank extension kit.

enq.244

New Lossnay RVX from Mitsubishi Electric



Mitsubishi Electric has announced the launch of the Lossnay RVX mechanical ventilation heat recovery (MVHR) series to deliver energy efficient fresh, clean air with significantly reduced power consumption. Models in the range utilise a more efficient DC fan motor which enables the Lossnay RVX to benefit from significantly lower specific fan powers (SFP's). With SFP's ranging from as low as 0.30 W/(l/s) up to a maximum of 1.61 W/(l/s) across the entire

range, the Lossnay RVX units help comply with Building Regulations and legislation and allow for more energy saving and reduced carbon emissions.

01707 282880 www.mitsubishielectric.co.uk

enq.245

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enq.248

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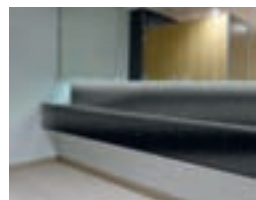
For architects, contractors, cleaning and facilities teams, Alavo's plug and play design minimises time spent designing, installing and servicing the washroom area.

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enq.250

Mapei introduces new Ultratop Loft



Mapei UK has launched Ultratop Loft F and Ultratop Loft W, a highly decorative cementitious product that can be used on walls, floors, staircases and ramps to complement its existing Ultratop range of products. Ultratop Loft F and Ultratop Loft W are one-component, trowellable, cementitious products available in two different

aggregate sizes; either coarse (Ultratop Loft F) or fine (Ultratop Loft W) offering two different appearances depending on the ultimate finish required. Both products are ideal for creating aesthetically pleasing and original floors and walls, with a classic trowelled or mottled effect.

0121 508 6970 www.mapei.co.uk

enq.251

New online humidifier selector



Condair, formerly known as JS Humidifiers, has launched an innovative new website, www.condair.co.uk, with features including an online product selector tool and psychrometric calculator. The online product selector guides users wanting to select a humidifier through a series of multiple choice questions.

As the user progresses through the selection criteria, a shortlist of humidification systems is presented and refined, depending on the user's requirements, until an ideal humidifier or shortlist of products is suggested for the project. The product selector takes into account many factors such as available energy supplies, budget, type of application and desired level of energy consumption.

enq.252




Instant attraction with Vicaima

The moment they entered the room one look was enough, they could tell that it was love at first glance and that without doubt there was an instant attraction. Your design and build quality is often assessed by first impressions and what better way to set the right note than by your choice of interior door and door assemblies. By choosing Vicaima products, with a reputation for design flair and innovation, it can speak volumes about your own values and specification and demonstrate the passion you have for quality products. Vicaima's Dekordor 3D embossed face finished doors have really made a big impression, with their highly tactile yet surprisingly durable face finish. Its striking horizontal embossed surface cries out to be touched and yet it offers excellent abrasion and moisture resistance and is so easy to clean. Used widely in apartments and luxury living accommodation, Dekordor 3D presents a modern door option with real uniformity of colour and texture. Available in five finishes including Grey and a recently introduced Oak.

01793 532333 www.vicaima.com

enq.253

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enq.256



Nature just got tougher

In a tough world we sometimes need tough solutions. And we all know that safety should not be overlooked when it comes to providing a slip resistant flooring solution that not only looks naturally stunning, but also gets the job done. International vinyl flooring and interiors specialist **Gerflor** has refreshed its popular Taralay Impression range with two brand new ranges. Taralay Impression Control and Wood are both multi-purpose floor coverings available in 2m sheet format with a Group T wear rating, which makes them ideal for tough, heavy traffic environments. The range also comes with Gerflor's new Protecsol® Control surface treatment. Protecsol® Control improves the slip resistance flooring performance. It's the ideal solution for those environments where slip resistance is a must. Both products are also backed by a 10 year warranty. Available in eight stunning colours, Taralay Impression Control and Taralay Impression Wood are the natural choice for specifiers and a designer's delight.

enq.257

A unique addition to the Expona Family



Polyflor is pleased to announce the launch of Expona Flow, an exciting collection of 50 heavy commercial sheet vinyl flooring designs launched under the renowned Expona brand, recognised internationally for offering the highest quality, design led luxury flooring. Authentically replicating natural wood planks from a diverse range of

tree species and wood treatments, combined with innovative abstract and fantastical materials. Developed to provide a broad range of engaging and innovative design options, Expona Flow is suitable for use in a range of heavy commercial environments including healthcare, education and retail.

0161 767 1111 www.polyflor.com

enq.258

Crown Paints puts colour on-trend



Crown Paints has revealed its renowned Colour Influences programme, which sets out the on-trend hues for specifiers next season. Three palettes have been unveiled which work across the Crown Trade, Sadolin and Sandtex Trade brands. Freedom of Expression, Playtime and Organic Discovery have each been developed by the Crown Paints' Influences Panel, a team of creative experts

who have produced the palettes using a wide-variety of trends. Designed to give specifiers inspiration for projects across public spaces, commercial and retail environments, the palettes can be viewed in the Spring/Summer 2015 trends brochure.

0845 034 1464 www.crownpaintspec.co.uk

enq.259

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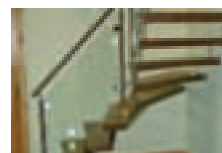
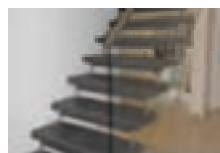
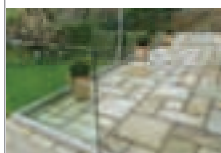
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enq.261

Armstrong Ceilings – project showcase 2015



Armstrong Ceiling's annual showcase of European projects, its 'A Book', shows how the leading manufacturer of interior ceiling system solutions delivers on its strapline for 2015 – inspiring great spaces. The coffee table-styled brochure takes

specifiers such as architects and interior designers on an epic journey through some of the most innovative, intelligent and stunning ceiling solutions available for their new-build and renovation design challenges. Case studies from Europe show how Armstrong Ceilings bring value to the design, installation and costings of projects in the education, healthcare, transport, commercial, leisure and retail sectors, no matter the material involved.

0800 371849 www.armstrong-ceilings.co.uk

enq.262

UK first for prestigious office development



New offices for an international law firm Wragge Lawrence Graham & Co within Birmingham's Central Birmingham Business District at Two Snowhill feature a special **Hunter Douglas** ceiling system used in the UK for the first time. The Hunter Douglas High Profile baffle system includes a total of 150 sq m of the special High Profile baffles in RAL grey, with a 250 sq m of

solid wood grill system in European Oak. The system offers a deep section box section that is best suited for spaces requiring a one-way plenum mask or specific lighting effects. The adaptable carrier system allows baffles to slide back for easy access to lighting, sprinklers and diffusers.

01604 766251 www.hunterdouglas.co.uk

enq.263

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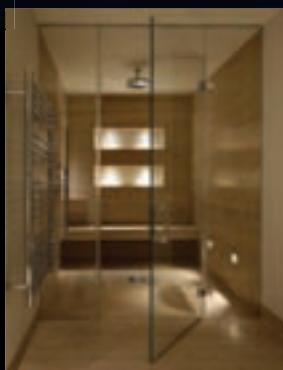
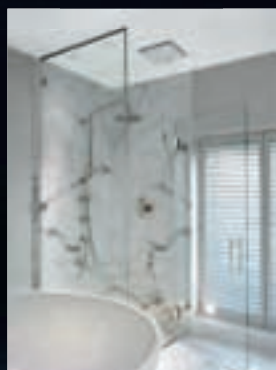
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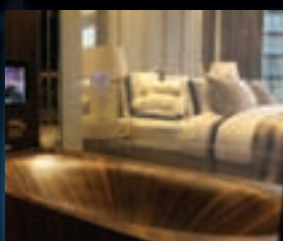
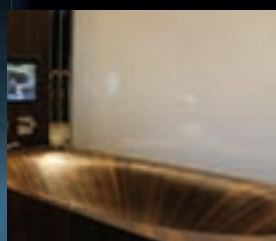


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- Vertical access
- Flat roof access
- Electrical operation

enq.267

Demand for bespoke seating solutions soars

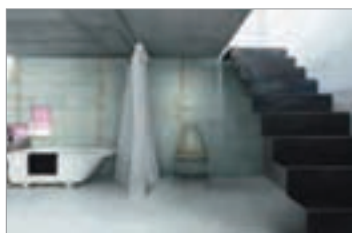


The need to stand out from the crowd and to provide that luxury wow factor has created an unprecedented growth in demand for bespoke seating solutions, according to the leading hand-crafted upholstery manufacturer, **Lyndon Design**. The company's bespoke seating solutions are featured throughout leading hotels and restaurants

around the globe. These specifications clearly demonstrate the product design and manufacturing capabilities for which Lyndon Design is renowned. All of Lyndon Design's bespoke upholstery is supported by a complete consultative service. The company regularly turns its upholstery design and manufacturing skill set to a number of other made-to-order options.

enq.268

Inspired by derelict industrial spaces



Solus Ceramic's Oxide range is an eye catching metal inspired series that features random rusty marks and signs of wear and tear. Each individual tile showcases a random level of oxidation, although corners and edges tend to display the most extensive examples of distress. In addition, some tiles will feature

scratched lines and cloudy highlights. Developed to evoke the charm of an old-fashioned factory environment, Oxide is available in five subtle, neutral shades.

0121 753 0777 www.solusceramics.com

enq.269

Polyflor achieves a BES 600 rating



Polyflor, one of the UK's leading commercial and residential vinyl flooring manufacturers is pleased to announce that it has obtained BES 6001 certification, demonstrating compliance with a recognised responsible sourcing scheme as certified by the BRE. Polyflor is the first flooring manufacturer to be awarded BES 6001, notably achieving a 'Very Good' rating (with ratings ascending from Pass; Good; Very Good to Excellent). Thomas Rollo, marketing manager, comments: "BES 6001 is an important standard and it will be extremely valuable to customers looking to procure flooring with sound environmental credentials and traceability, from socially aware and ethical suppliers."

0161 767 1111 www.polyflor.com

enq.270

Industrial flooring system earns it's stripes



Remmers industrial flooring systems have been used extensively as part of an expansion project to double the size of the manufacturing area at the Promat BD warehouse. Capeland Industrial Flooring were contracted to install 1800m² of Remmers flooring system to the new extension that was being built to

create additional warehouse space, as well as a requirement for 1,200m² of flooring to the existing machining area which was over 10 years old. The flooring needed to be durable, non-slip and resistant to oils while the warehouse floor required a hard-wearing, smooth finish suitable for fork-lift traffic and incorporating a DPM as it was being laid over freshly applied concrete.

0845 373 0103 www.remmers.co.uk

enq.271

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theflooringgroup

enq.272

respond online at www.architectsdatafile.co.uk

Sadolin's solution for a flawless floor finish



Premium woodcare range Sadolin has launched a new video to highlight its exceptional range of interior floor finishes for specifiers. Presented by Sadolin woodcare expert Sean Thompson, the video summarises the qualities of high performance products in the Sadolin flooring range.

The video entitled 'An Insight Into Sadolin Interior Flooring,' is available to view on YouTube. It gives an insight into the attributes of both Sadolin PV67 Heavy Duty Varnish, a solvent, two pack system and also Sadolin Polyurethane Floor Varnish – a water based, quick drying, non-yellowing translucent varnish.

0844 7708 998 www.sadolin.co.uk

enq.273

Designer LED



Timeguard continues to dominate the market for outdoor LED lighting with the stylish NIGHTeye range of pan-and-tilt, floodlight and bulkhead designs.

Superior design is matched with superior componentry to ensure guaranteed long life.

For more information on a wide range of Timeguard's innovative products, please visit the company's website or call directly on the number below.

020 8450 8944 www.timeguard.com

enq.274

AMA from COMPAC



COMPAC has launched the new AMA Collection – an innovative quartz work surface which takes its design heritage from the diverse wonders found in America's great natural parks. The three colours in the collection, White AMA, Black AMA and

Brown AMA evoke the textures and patterns created by the powerful rivers that run through the mountains, forests and plains which have such a profound influence on their natural surroundings. With a unique, rich veined design, strong in character yet sensuous as nature intended, each one of the AMA Collection has a perfect polished finish which is easy to clean and maintain and will provide the kitchen with light, harmony and a natural peace.

enq.275

Signbox introduces the Matt Design range



Signbox has announced an exclusive new collection of pictogram wayfinding signs. The Matt Design range uses Perspex® Naturals, a new palette of acrylics inspired by the simple beauty of nature. Available in eight colours that will satisfy both contemporary and traditional interiors, the innovative collection is designed to suit all applications. Developed from leading colour trends research, Perspex® Naturals

simulate the earthy tones and velvety texture of natural stone. The Matt Design range uses these exciting materials and then adds attractive and informative new pictogram designs to create a refreshingly new wayfinding signage series.

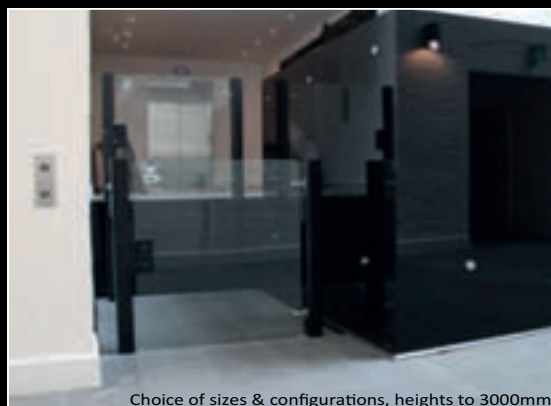
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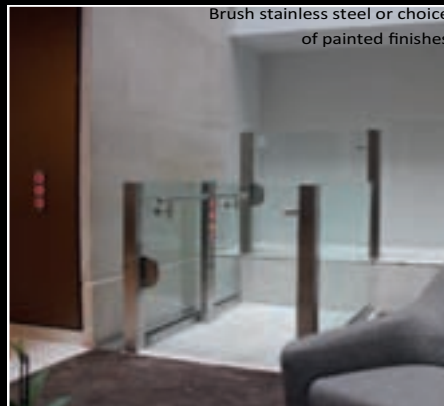
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Horne CPDs gain CIBSE Approval



Horne Engineering's Maintenance Training Seminar (MTS) – covering thermostatic mixing valves, showers and the Building Better Healthcare award-winning Optitherm thermostatic tap for clinical handwashing – are available free-of-charge to in-house maintenance teams and FM contract providers at NHS Trusts, private care operators, education and sport and leisure estate managers. Recently, the training seminar, which is delivered by Bill Smith at client's premises, gained CPD approval by the Chartered Institute of Building Services Engineers (CIBSE).

CIBSE CPD approval has also been granted for Horne's seminar: HTM 04-01 Addendum, the role of tap outlet fittings and further measures to reduce Pseudomonad contamination in healthcare settings. This seminar details the background and subsequent investigations that resulted in the published Addendum to HTM 04-01 then explains the role the specialised tap outlet fitting plays in minimising retrograde contamination of taps and the last few metres of supply pipework – both in terms of its structure and materials of construction. In addition, the relative merits of chemical versus thermal disinfection, efficacy and methodology are discussed and explained.

01505 321455 www.horne.co.uk

enq278

Changing places at International Gateway



Commitment to improving customer journeys is being taken 'above and beyond' at East Midlands Airport, with a complete refurbishment of its Changing Places toilet. The airport is now one of just a handful of Britain's 60 airports that is as accessible to all as possible, with the upgrading of its Changing Places toilet for people who need the help of a carer for personal hygiene. The purpose-built facility gives more space – 12 sq m – than a conventional wheelchair-accessible toilet, to accommodate the user and their carer, and has additional equipment. This includes a hoist and mobile, adult-sized changing bench, supplied and installed by Clos-o-Mat, one of the country's top providers of specialist toilet facilities for the disabled and elderly. Clos-o-Mat is the biggest provider of such toilets, and their counterpart hygiene rooms. The company is unique in being able to offer, in-house, design advice, supply, install, commissioning and ongoing service/maintenance, backed up by in-house project management of a Changing Places toilet or hygiene room. Clos-o-Mat has used its expertise in the field to produce a white paper on Changing Places toilet provision in general, and specifically the transport sector, both of which are available for download – alongside technical specifications, typical layouts and 2D and 3D CAD drawings – on its website.

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

enq279



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Hansgrohe launches Axor Citterio E



Designed by Italian architect and designer, Antonio Citterio the new Axor collection of bathroom fittings exude elegance, high quality and worth. Axor Citterio E by Hansgrohe is characterised by a balanced contrast of smooth shapes, clean lines and precious surfaces and offers exceptional ease of use. Soft and slender mixer handles characterise the collection's design, as in the single lever mixer with its modern and

upright joystick handle, or in the 3-hole mixers with their classic cross-handles. All 37 products that share a visually appealing and harmonious look that complements a variety of styles, from art nouveau to modern urban.

01372 465655 www.hansgrohe.co.uk

enq.282

Systemline S7 at Victoria + Albert Baths



New multi-room audio system **Systemline S7** has been installed in a high-profile showroom at the Design Centre Chelsea Harbour. S7, which is discreetly built into the fabric of a building, was primarily targeted at domestic settings, but in this case it was chosen for the substantial new showroom of high-end bathware manufacturer Victoria + Albert Baths. The location in the Design Centre makes it a highly visible showcase, being an international destination for interior designers. For more information visit the website.

01279 501111 www.systemline.co.uk

enq.284

The Primo cubicle system from Kemmlit



Primo from **Kemmlit** is a durable, smooth-surfaced cubicle system with doors and walls offered in 30mm or 42mm thick composite construction, bonded on both sides with 3mm thick HPL solid core panels. The waterproof HPL surface has a special protective layer giving exceptional protection against scratches

and abrasions making it ideal for a wide range of environments. The visible profiles can be made from stainless steel or high grade aluminium finished in either anodised or a powder-coated coloured finish with wiring for electrical connections routed invisibly within the elements. Primo is available in either a floor clearance design or the increasingly popular floor to ceiling version.

enq.286

On The Level – bespoke wetrooms



Ideas soon turn into reality with imaginative planning and a bespoke wet floor design from a specialist like **On The Level**. With 30 years experience, On The Level is a manufacturer of concealed wet floor formers and can produce bespoke solutions in any size or shape. The formers are precision engineered in 24mm birch ply which means that they are extremely strong, but light

and easy to handle and can be readily shaped on site and screwed into position. They are an essential part of the wetroom because they dictate the gradient of the tiled floor in the shower area and it is this gradient that allows the water to drain away quickly - avoiding pools of water sitting on the tiles.

01525 373202 www.onthelevel.co.uk

enq.283

Pressalit Care's remote flush



Pressalit Care has developed a remote flush facility for inclusion with its height adjustable toilet, adding to the independence that the toilet already offers those with limited mobility. The remote flush operates on a dual three or six litre flush capacity, each button differentiated by colour, and linked to the cistern that is installed in the wall mounted, height adjustable toilet unit. The Pressalit Care height adjustable toilet – which is simply operated by a hand held, wired device – allows users to position the

toilet to meet their individual needs, allowing for both seated and standing users, accompanied and unaccompanied, as well as safe transfer from a wheelchair.

0844 8806950 www.pressalit.com

enq.285

Unique modular wet-floor system



The Modular Wet-Floor system from **CCL Wetrooms** is a totally unique concept in wet room technology, consisting of only three elements: Drainage Component, Tapered Board, Floor or Wall Grill. Thanks to the flexible nature of these components, almost any size of wet room can be

achieved. The Drainage Component and Tapered Boards can be used in a combination of ways to create either a one way or two way fall, with the drain positioned in the floor or up against the wall. The components can be trimmed or butted together to create a larger wet room area, making the Modular Wet-Floor system both simple to configure and quick and easy to install.

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

enq.287

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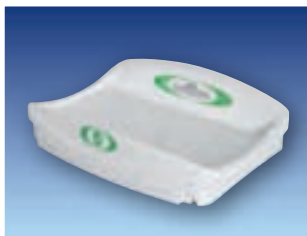
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enq.292

enq.290

Dream places in awkward spaces

Ann Boardman, customer services and marketing manager for Saniflo UK, highlights some interesting facts about how our changing society is increasingly relying on property conversions that include additional bathroom facilities to make life more comfortable and the ingenious solutions available to deliver a dream bathroom in some very awkward spaces

There's no doubt that the market for bathroom products used in conjunction with macerators and pumps is likely to grow, if the results of the 2011 Census are anything to go by. More people than ever are living alone (with the number of single person households growing by 166,000 a year) and the UK's growing ageing population is increasingly converting and adapting their homes to create extra facilities.

A 2014 report from ComRes reveals that one in ten (11 per cent) of British adults report having a mobility problem, meaning that they could benefit from a disabled-friendly home, whilst a recent DisabledGo report states there are 12 million people in Britain with disabilities with an estimated spending power of £200 billion.

The ComRes report claims many disabled and older people unable to live comfortably, unless they convert their property and states that two-thirds (63 per cent) of people reporting mobility impairments say they do not have a bathroom large enough to fit a wheelchair into.

Many people – young singles, the over 60s and people with disabilities – are taking matters into their own hands and opting to convert their properties to make them more comfortable and in many cases these conversions are only possible thanks to macerators and pumps.

Macerators and pumps are designed for unconventional situations where a water supply can reach but drainage is a problem. Basements, lofts, garages, even under stairs cupboards can all become bathroom spaces with the use of these and compact bathroom products.

There's a wide range of pumps and macerators perfect for awkward spaces whether that's adding a bath in the basement, a loo in the loft or a shower under the stairs, all providing the industry with an opportunity to think adventurously about using all the available space, no matter how seemingly impossible.

In a loft conversion, for example, space is particularly limited for an en-suite in the rafters. You can hide a pump or macerator in the triangular loft space next to the room and this is enough to service a WC, wash basin and shower, giving you a more complete en-suite rather than just a WC and basin.



Even an under the stairs cupboard can be converted with a WC that has an built-in macerator, meaning there's no need for a bulky cistern, which allows extra space for the door to open inwards without compromising access.

Ceiling height can be an issue in conversions. A great showering solution for these lower ceiling spaces is a shower cubicle in a shorter version designed specifically for such awkward spaces. Also consider a low-level shower tray, so the overall height of the shower is not compromised by a high tray. These complete self-contained cubicles also save time, as the

Continued overleaf...

'Achieving a beautiful contemporary en-suite bathroom that makes life more comfortable, adds value to the property and saves on the cost of expensive groundworks is possible with macerators and pumps, even within the existing drainage footprint'



installation process is less disruptive partly because no tiling is required and a cubicle can even fit over the existing décor.

Some conversions are only made possible thanks to macerator and pump solutions.

Let's consider the option of creating a new bedroom and bathroom in the roof space of a property, one where the existing drainage infrastructure isn't adequate for a traditional bathroom solution. In such a scenario it will be important to cleverly hide pumps behind a wall in the new bathroom and you might need a solution for the WC and basin and another for the shower. If hidden, it's essential to guarantee easy access, this could be achieved by proving a large hatch in the adjoining bedroom, for example.

Achieving a beautiful contemporary en-suite bathroom that makes life more comfortable, adds value to the property and saves on the cost of expensive groundworks is possible with macerators and pumps, even within the existing drainage footprint.

So, rest assured that the next time you're presented with a seemingly impossible request for a new – domestic or commercial – bathroom, before dismissing it and saying it's not possible, look at the wide variety of macerators and pumps available today and seek professional, technical input from the manufacturers. You'll not only fulfill the dream of your client, but you could also save them a lot of money, time and hassle.

enq.293

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Wet room wonders from Schlüter-Systems



Installing a wetroom with Schlüter®-KERDI-SHOWER or Schlüter®-KERDI-LINE can create a more attractive space, does not have to be a set size or shape and offers an ideal substrate for an excellent finish with tile or natural stone

Schlüter-Systems' extensive range of wet room products offers simplicity, reliability and easy installation within the home.

Incorporating the very latest innovations for floor-level showers and wet rooms, Schlüter-Systems provides a fully integrated product suite, including top of the range waterproofing sets, drainage systems, and uncoupling and waterproofing membranes for tiling the walls and floors.

Products including Schlüter®-KERDI-LINE are linear drain channel systems which are perfect for the construction of floor level showers and offer a particularly low assembly height (below). The Schlüter®-KERDI-SHOWER range (right) are pre-sloped shower bases making tiling straightforward and there are a number of different sizes and dimensions available, providing an ideal substrate for an excellent finish with tile or natural stone.



With Schlüter®-KERDI-DRAIN and Schlüter®-KERDI-LINE, designers and homeowners can decide whether they want to make the drainage channel a feature by opting for designer grates or allow it to blend into the design with frameless grates

'The fact that we've witnessed such an increase in demand for our wet room range really speaks volumes about the popularity of not just the packs but the products...'

Carl Stokes, divisional manager at Schlüter-Systems

Other products in the range include the Schlüter®-KERDI-SHOWER-TB which has been specifically designed for timber substrate environments and the Schlüter®-KERDI-DRAIN (pictured bottom left), which is a square floor drain system with designer grate options. Schlüter®-WETROOM range also boast all-in-one wet room kits, including all the necessary components to provide guaranteed waterproofing solution for walls and floors.

Carl Stokes, divisional manager at Schlüter-Systems, commented: "The installation of a wet room within the home has never been so easy or more accessible. We have received great feedback from tilers using our kits and the fact that we've witnessed such an increase in demand for our wet room range really speaks volumes about the popularity of not just the packs but the products within our wet room range.

"The kits are not only an installers dream but with the Schlüter®-KERDI-DRAIN and Schlüter®-KERDI-LINE the designers and home owners can tailor make the decision on if they wish to make the drainage channel a feature with the designer grates or for it to blend into the design using the frameless grates."

With over 10,000 products in its range, Schlüter-Systems has an essential role to play in every professional tiling project. To find out how they can help you to create more beautiful and longer lasting installations, please telephone 01530 813396 or visit the website at www.schluter.co.uk

enq.297



Schlüter®-KERDI-LINE stands out not just because of its beautiful appearance but also its ease of installation; it's also available in a range of sizes

Grundfos SOLOLIFT2 a cut above



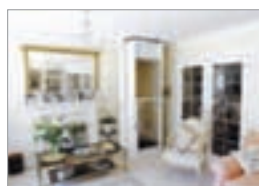
The SOLOLIFT2 range of macerators from Grundfos are a cut above the rest in delivering leading edge technology. Not only does the family comprise of just 5 models but, through the flexibility of their design, their adaptability and performance, they provide the solution to handling wastewater for any

combination of WC, bidet, sink, bath, shower and washing machine. So whether the application demands an extra bathroom, a basement installation, or is for extra facilities in hotels; or perhaps where facilities are needed for the elderly or the disabled – Grundfos SOLOLIFT2 macerator range have the answer.

01525 850000 www.grundfos.co.uk

enq.298

The only way is up with a Stiltz lift



Home lifts specialist Stiltz's range of domestic lifts are totally unique as they do not require hydraulics and plug straight into the wall using a normal 13 amp power socket. Assembled at the company's headquarters in Wokingham, Berkshire, the Stiltz Lift is powered by an electric motor system that sits out of view on

top of the lift. These innovative home lifts do not need to be fixed to walls as the lift travels via dual rails that are positioned in the floor creating a completely self-supporting structure. This means the domestic lift can be installed practically anywhere in the home with a distinct advantage over its hydraulic counterparts.

0844 870 9087 www.stiltz.co.uk

enq.600

New thermostatic mixer shower ranges



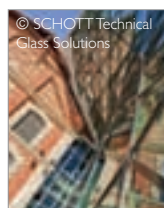
Leading bathroom and shower manufacturer MX Group has unveiled an impressive new range of thermostatic mixer shower valves offering its usual combination of incredible quality, great looking product, excellent warranties and keen pricing. There are 22 showering choices in the Atmos and Options ranges with most Atmos options complying with TMV2 regulations. Full

details of the new ranges can be found on the excellent MX website.

01684 293311 www.mx-group.com

enq.299

Relieve the pressure with PYRAN® S



Helmut Kugelman, Head of Sales at SCHOTT in Jena says: "Several acclaimed building projects in Europe recently installed fire resistant glazing based on PYRAN® S specialty glass. Thanks to the high quality of materials, architects and planners can use it in a variety of ways without having to compromise on functionality or aesthetics." SCHOTT, an expert for fire resistant glass with more than 20 years of experience, continues to

improve its products. Just recently, SCHOTT introduced its PYRAN® S specialty glass to the market in XXL format (1,800 mm x 3,600 mm) in the class E 30. It is considered to be the largest sheet format in its class in Germany.

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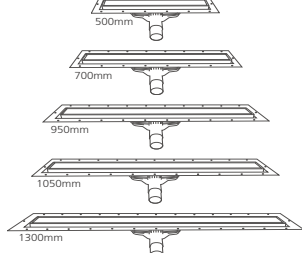


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Acoustic fire hoods for loudspeakers



In the build up to the Integrated Systems Europe (ISE) exhibition in Amsterdam, Invisible loud-speaker experts **Amina Technologies Ltd** would like to remind AV professionals that as well as launching an all new speaker range and high performance subwoofer, the company will be displaying its range of acoustic fire hoods that

complement its speakers and installation back boxes. Made specifically to Amina's specification by UK based fire hood specialist **Hoody™**, three models are available: Firehood200, Firehood300 and Firehood345. Amina's acoustic fire hoods are designed to provide 60 minutes' fire protection and are tested to BS EN 1363-1.

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Introducing SONA



An innovative new range of home safety products is set to transform fire and carbon monoxide protection. The new SONA range, launched by home safety products manufacturer **Sprue Safety Products**, brings

together the latest technology in a simple range of three alarms – smoke, heat and carbon monoxide (CO) – with a control unit, diagnostic capability and wireless options to offer the most technically advanced protection against fire and CO in a single, low-cost system. In a move to simplify choice, specification and installation, Sprue has brought its market-leading Thermoptek™ and Thermistek™ technology into the next generation SONA range.

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enq.605

Unite Security use innovative solution for fire protection in Edinburgh business



Plumis Automist provided an innovative fire safety solution for a new high-end coffee shop in the Southside/Newington area of Edinburgh. "Cult Espresso" serves "third wave" espresso drinks from cool, basement style premises with an open plan layout but because of the width of the building and one direction of travel, exit in the event of a fire is restricted and access for the emergency services limited. The City of Edinburgh Council insisted that either an emergency exit or an alternative suppression system was installed. The use of sprinklers was deemed unsatisfactory as they would drench the property in the event of a fire, causing considerable water damage. Edinburgh Building Control knew of Automist and recommended that the owners view the Plumis website where they identified Unite Security as local Automist accredited installers for the system. Glenn Kippen, Unite's Managing Director had no hesitation in suggesting the installation of this highly innovative and very cost effective product. Automist uses a high pressure pump to generate a fine water mist from nozzles to suppress any fire, including grease and chip pan fires for which water mist is an effective suppressant. It is also extremely reliable because sensing is based on heat detection, effectively eliminating nuisance alarms which, again, would have interrupted custom.

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The role of manufacturers in fire safety planning

Paul Pope, business innovation manager EMEA at Apollo Fire Detectors, explains how manufacturers are crucial to the success of any fire detection system, and highlights why they should be involved in a building's design process

Developing an effective fire safety strategy which gives an early fire warning allowing the safe exit of occupants from a building or an area is a complex process. This process requires the input of experienced specialists, right from the initial consultation and design stage all the way through to the commissioning, installation and ongoing building management.

Once installed, a fire detection and alarm system may provide one method for the early warning and evacuation strategy to begin. But, before this, a lot of work has taken place to develop the specialist products, communication protocols and system strategies to ensure that all elements come together giving all occupants the best possible chance to exit the premises safely and quickly under a number of unforeseen scenarios.

Fire detection manufacturers are experienced in understanding the complex markets, international standards and the technicalities of the fire detection and alarm industry in order to identify where new product and system enhancement opportunities exist.

Any new fire detection product which is subsequently brought to market will firstly have been through stringent third party testing stage for the appropriate certification, for example, EN54, before heading to manufacture. The whole testing and certification process can take anything from three months to two years to complete.

By working together, manufacturers and those involved in the evolution of buildings can provide effective protection, as Adair Lewis, Technical Manager at the Fire Protection Association (FPA), explains: "Fire safety planners need to be working with manufacturers to ensure that they are recommending certified detectors and sensitivities to their clients which are fit for purpose. Each installation can be subject to different environmental conditions, for example, there may be a factory environment where excessive heat and steam is produced, and a manufacturer is a crucial point of reference for clarification of the best type of detector to use."

Adair's final point is one that is crucial to any effective fire detection system and is an area where the expertise of a manufacturer should be utilised by building designers to give advice and guidance. It is vital that all areas of the building are assessed to ensure the appropriate type of detection is used for the differing fire risks. Understanding the type of fire risk, materials present, fire load, environment, sensor technology and the



'Fire safety planners need to be working with manufacturers to ensure that they are recommending certified detectors'



Paul Pope, Business Innovation Manager EMEA at Apollo Fire Detectors

best detector locations are critical for early and reliable fire detection.

It is also imperative to protect life that any fire detection system operates and monitors the fire protection measures correctly according to a building's fire evacuation strategy. Examples include, simultaneous or phased evacuation, closing fire containment doors, grounding lifts to a safe area relative to the fire and fire and smoke damper control. In addition, occupants may be unfamiliar with their surroundings, possibly orientated to a different time zone and understanding different languages. All of these issues need to be accounted for in the event of an incident.

In addition to advising on the most appropriate fire detection equipment to use, manufacturers can also play a key role in recommending to architects how their products can be best implemented within a strategy and design to accommodate any potential future works or changes at a site, a point which is vital to ensuring the longevity of a fire detection system within a building's design.

There is a vast array of legislation and standards that govern the protection of buildings and their occupants and the consequences of not bringing all these together and ensuring the highest levels of fire detection, safety and evacuation can have tragic results. Those involved in building design and fire safety planning process should also not be afraid to draw upon the knowledge and expertise of reputable fire manufacturers to help them assess what products are best, and how the use of these products can be maximised well into the future.

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Aico launches Centre of Excellence



As part of its 25th anniversary celebrations, Aico, a market leader in domestic Fire and Carbon Monoxide (CO) protection products, has launched a new sophisticated training and demonstration facility at its premises in Oswestry, Shropshire: the Centre of

Excellence. It has been built by Aico to demonstrate its comprehensive product range and provide customers with the latest training and meeting facilities. Visitors to The Centre are able to gain an overview of the history of Aico, along with its parent company Ei Electronics, through an infographic marking all the key stages in these companies' histories, including actual products – past and present – from the 25 years Aico has been in business.

enq.610

Export boost for Thermaset



Export orders from Norway and Spain have boosted business for Tamworth based **Thermaset Limited**, one of the UK's best known companies for the formulation and manufacture of powder coatings. Hot on the heels of an announcement of plans to invest three quarters of a million pounds in plant and production machinery next year (2015) and a doubling of production capacity, the overseas

orders are a timely boost to the Staffordshire company. Traditionally, powder coating has not been regarded as a prime export-oriented market, but Thermaset's success in supplying powder for projects in Spain (Madrid) and Norway indicate the company's intentions of moving more actively into export markets.

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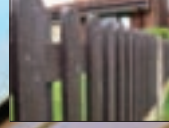
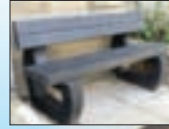
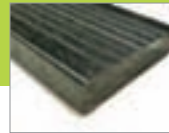
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The power and protection of colour in woodcare

Much is made of colour indoors but, used externally, the use of different shades can create exciting environments, help underpin an organisation's branding and identity, create a sense of space and leave a beautiful lasting legacy. Sharon Smith, brand manager of premium woodcare brand Sadolin, gives the complete picture on transforming, energising and protecting wood through colour



'One of the most common queries technical teams receive is clarification on the difference between translucent and opaque finishes in woodcare'

Sharon Smith



Modern formulations mean premium woodcare products can deliver exceptional colour choice to make a positive impact on architectural projects – with the reassurance for specifiers of a long lasting finish.

Think about colour in woodcare and the traditional look dominates – namely the usual woodtone shades, such as oak, mahogany and teak.

However, in recent years, the trend has started to move towards a more colourful approach. Modern formulations, attractive finishes and the development of new tinting technology now means a wealth of shades can be selected, to stunning effect.

Inspiring and long lasting protection

When specifiers look at introducing colour outdoors, the main areas to consider are the finish – whether to go for a translucent or opaque look – making the right choice of shade and the formula of the product. The final factor is the preparation of wood, which can make or break a project.

One of the most common queries technical teams receive is clarification on the difference between translucent and opaque finishes in woodcare.

In short, translucent woodcare products enable colour to be introduced, but the natural beauty of the wood to still shine through, with the grain remaining clearly visible. The colour can be the more traditional woodtones, but other shades can

also be selected for an eye-catching finish.

A more solid, uniform colour is achieved from opaque finishes. These can vary from subtle pale shades, right through to the darkest hues – and any colour in between and they can be used to help obliterate unsightly, slightly imperfect wood.

The choice of woodcare colours are almost unlimited – particularly with opaque products – and architects guides and colour cards can provide a good starting point to inform specifiers on the wealth of shades and options available. Sample pots offer an effective way of seeing proposed colour ideas in-situ.

Along with the choices in shade and finish, advanced formulations also have a part to play, to ensure the colours specified stay in place for the long term. Premium woodcare products offer the benefits of both acrylic and alkyd technologies, meaning the best of both worlds for specifiers. The use of alkyds offers exceptional penetration and bonding qualities to make the products really absorb well into the wood. This is then complemented by the use of acrylics, which ensures that the look stays in place for the long term, due to their durability and flexibility.

Getting the right look – the power of preparation

The old adage that 'preparation is everything' really applies within the field of woodcare. To get the best from colour in terms of its intensity, the final finish and also the longevity of



the project, it's important to get the canvas right.

Poor preparation could potentially cause coatings to fail prematurely, resulting in peeling, flaking and moisture entering the gaps and damaging the timber.

Preparation even extends to new wood. Although new timber may look clean, it usually isn't, so a very light abrasion is recommended – and it should be made in the direction of the grain, rather than across it.

Dusting off is also important as it ensures the coatings adhere to the surface and not to the dust.

The final step is to degrease or clean the surface, irrespective of whether it's softwood or a hardwood. Durable timbers such as teak or oak can contain high oil/resin contents or they may contain very high levels of extractives. It is important dirt and grime is removed from the surface prior to coating, otherwise that could cause problems with adhesion.

If the surface has a previous coating system that is in good order, sometimes the requirement is only for a maintenance coat. Premium woodcare products are designed to naturally erode and if the surface is in good order, then all that is required is a simple clean with water and detergent, followed by a rinse off with clean water. Once dry, then the surface is ready. However, if there is uncertainty over what the previous system was, it's a good idea to lightly abrade the surface in the direction of the grain, before dusting off and cleaning the surface.

If you are looking at a system that is in poor order, then it is not likely to be good enough to put another woodcare product over the top. The best option therefore is to remove the old coating and prepare the wood to create a clean, dry and sound surface.

Before introducing your selected colour, the final steps to consider in the preparation process – and to ensure a successful outcome overall – are the use of wood preservative treatments and woodfillers. A preservative will stop the rot setting in untreated areas, while woodfillers tackle the indentations in wood that could blight the look and feel of the finished project.

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Peak paving solution from Brett Landscaping



Fulfilling a landscape architect's brief to achieve cost-effectiveness under strict planning regulations, **Brett Landscaping** has been commended for its involvement in supplying its Beta concrete block paving at a two and three-storey split level cedar clad school, built within a Greenbelt area on the border with the National Peak District

Park at Worrall in Sheffield. The installation of Beta paving, which has been selected to fulfil the hard landscaping element of the school's rebuild, has resulted in the delivery of a clean, smooth and durable aesthetic thanks to its minimal edge chamfer, making it ideal for the school's required application.

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Blackpool Pleasure from Bradite



One of the most famous amusement parks in the UK is being kept in tip top condition thanks to products from the **Bradite** paint and primer range. Blackpool Pleasure Beach amusement park is located along the Fylde coast in Blackpool, Lancashire, and with millions of visitors a year, it is

essential that the most visited tourist attraction in the United Kingdom is maintained on a rolling basis. Keeping the rides in pristine condition considering the elements of the environment is no mean feat: sea and salt spray from the adjacent coast are a highly corrosive combination but the park has found a perfect solution in the Bradite, which has been the paint of choice for the park for many years.

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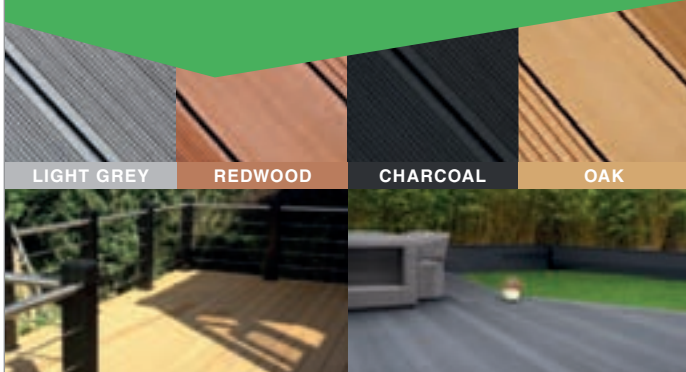
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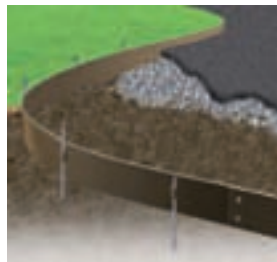


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