

February 2014

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Doors, windows &
conservatories supplement

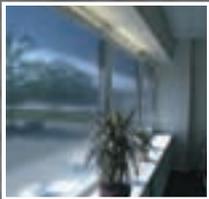
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401



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24



30

projects

24 Don't be afraid to face your Waterloo

London Waterloo station's concourse has changed from a hellishly hectic place to a modern transport hub with an attractive retail balcony, as James Pringle is pleased to report

30 Manchester set to append ahead on new national stadium

Steve Menary reports on plans to build the UK's first national speedway stadium and set a standard for design in a sport traditionally left at the back of the pack

features

61 STRUCTURAL ELEMENTS: MODULAR & FAST-TRACK CONSTRUCTION

Fabric structures – an alternative world

Dale Robinson MSc, BEng (hons), structural engineer at Rubb Buildings Ltd looks at the benefits of the fabric structure in contemporary architecture

79 INTERIORS: BATHROOMS & WASHROOMS

Versatile style

Nicola Seymour of Marbrex explores the potential of decorative yet highly practical internal cladding systems over more traditional wall coverings – from reducing labour costs and timescales to ease of installation; long-term cleaning and maintenance

92 SAFETY & SECURITY: SMOKE & FIRE PROTECTION

The importance of reducing false fire alarms

By Michala Ford, marketing manager of Safety Technology International (Europe) Ltd

95 LANDSCAPING & EXTERNAL WORKS: ARCHITECTURAL COATINGS & PAINTS

FR Coatings Alert

By Stephen Young, director of the Wood Protection Association

news & events

- 4 Industry News
- 9 Events
- 17 CPD Focus

HEADLINES

- 4 Maggie's applies for planning permission for new Norman Foster designed Centre at The Christie
- 11 Another successful Surface Design Show
- 13 Over 1,000 additional architects required by 2018

37



57

products

- 22 Editor's Focus
- 47 Doors, Windows & Conservatories Supplement

20

- 34 Appointments & News
- 34 Groundworks
- 58 Structural Elements
- 62 External Envelope (inc. External Fixtures)
- 68 Insulation
- 69 Heating, Ventilation & Services
- 76 Interiors
- 46 Disabled Products & Services
- 90 Safety & Security
- 94 Landscaping & External Works

99

- Classified & Directory



Cover image: Courtesy of Rubb Buildings, see page 61 for details

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100% DESIGN 2014

Leading design forces gather to celebrate the 20th edition and 2014 launch of 100% Design

To mark its 20th edition this year (17 – 20 September), 100% Design hosted a celebratory dinner at Heal's Tottenham Court Road recently, attended by some of the best and leading names in the UK's design and creative industry.

Show Director, William Knight was joined at the dinner by the likes of Max Fraser, El Ultimo Grito, Chrystina Schmidt of Skandium, Michael Marriott, Gareth Williams and Paul Cocksedge, all of whom have participated and contributed to 100% Design's success in the last 20 years.

William Knight, show director, 100% Design comments: "We were delighted to see all the familiar faces – the designers and those who were or

have been part of the 100% Design history – come together and celebrate this significant milestone with us. The show has achieved so much in the last 20 years, from starting as a boutique UK design show to now becoming an international event in the design calendar with an extensive global reach.

"Despite the scale increase over the years, 100% Design stays true to its long-standing commitment to design, innovation and quality, and continues to offer an unrivalled platform for aspirational design brands as well as emerging young designers to showcase their talent and creativity. 100% Design 2014 will celebrate the history but also look ahead to see where design will take us in

the next 20 years, and we are confident that the show will be one of our best shows yet."

In partnership with Kingston University and the Design Museum's MA Contemporary Design programme, a series of encounters have been curated by The Concept Lounge to celebrate the show's 20th edition.

To kick start the series, selected students from the MA programme along with 100% Design, gathered stories and ideas from attending guests at last night's event, and the collected materials will be contributed towards a special timeline feature at the 2014 show.

MANCHESTER

Maggie's applies for planning permission for new Norman Foster designed Centre at The Christie

Maggie's, the charity which provides practical, emotional and social support for people with cancer, has applied for planning permission for a new Maggie's Centre in the grounds of The Christie in Manchester.

The Centre is designed by architects, Foster + Partners. Working in partnership with The Christie – a global leader in cancer treatment and research – the new Maggie's Centre will provide free practical, emotional and social support for anyone living with cancer as well as their family and friends. The Centre will significantly enhance the cancer support already offered at The Christie to include Maggie's evidence-based core programme of support delivered in an uplifting non-clinical environment, as well as a comprehensive service of complementary therapies. The new Centre is due to open in 2016.



Set in a peaceful garden, the existing green spaces inspired the Centre's design, which draws upon natural themes that engage the outdoors. Arranged over a single storey, the natural timber structure focuses around a wide, central spine with the roof rising in the centre to create a mezzanine level beautifully illuminated with natural light. Exposed

lightweight beams and timber lattice support the roof while also defining different spaces. An integrated glass house extends from the south of the building, providing a space for people to gather and enjoy the therapeutic qualities of nature and the outdoors while the interior palette combines warm, natural wood and tactile fabrics.

MONGOLIA

North east architecture firm tackles 'cold' war in Mongolia with energy efficient homes blueprint

A North East architecture firm is helping to tackle the 'cold' war in Mongolia, after completing designs for a major new homes development in the country's capital.

Gateshead's Gradon Architecture has submitted its design proposals for 50 energy-efficient homes in Ulaanbaator – a city regarded as the second most polluted on the planet, according to the World Health Organisation (WHO).

Working with a local developer, the designs could form a blueprint for replacing soviet-era homes across the city and will help to protect residents against deadly minus 30 temperatures.

The three and four storey townhouses, located in the Nukht Valley district of the city, will incorporate a number of sustainable features to reduce heat loss and keep families warm.

Due for approval from the Government Department of Construction & Planning, the development will include photovoltaic panels, solar hot water heating, together with insulation that exceeds British Building Regulation standards.

Chris Allan, associate architect at Gradon Architecture, said: "Many buildings in Ulaanbaatar date back to the Soviet era. This means that many people are living in poor quality accommodation, which lacks even basic polystyrene insulation as well as double glazing. In

one of the coldest and heavily polluted cities in the world, this is having a real impact – especially on public health.

"We believe that designing modern, sustainable homes for the future can truly improve people's lives. Therefore by raising the standards of energy-efficiency as part of this scheme, we hope to create a blueprint for the way both executive and affordable homes will be built in the city going forward.

"The government has made a real commitment to creating better homes for everyone across the city, including those people living in the 'Ger-Districts'. Master-planning is now underway for the city. If our proposals can deliver an exemplar project from which future developments can draw from, we believe

thousands of families will benefit from improved living standards in the future."

Based at NE40 Studios, a converted locally listed church in Ryton, Gradon Architecture is growing an international reputation for delivering a range of international design projects in countries such as Australia, China, and Kazakhstan.

To support the needs of an increasingly suburban area in the Nukht Valley, the practice has also put forward its plans for a new community leisure facility. The building will comprise of a shopping mall, business hub, bowling alley, gymnasium, swimming pool and a sport and leisure club.

Once plans have been approved construction work will begin on-site in summer 2014.

'We believe that designing modern, sustainable homes for the future can truly improve people's lives'

Chris Allan, associate architect at Gradon Architecture



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EDUCATION

From design to demolition: UWE Bristol launches new MSc to help meet stricter construction protocol

Stricter government requirements on managing the building life cycle for publicly funded projects are being met by the launch at UWE Bristol of a new MSc Building Information Modelling (BIM) in Design Construction and Operations.

BIM is emerging as the industry standard approach to the modelling and management of a building's life-cycle, from design and construction to maintenance and demolition, and is taking over from computer aided design (CAD).

The UK government's construction strategy has pushed forward the programme for adopting it - from 2016, all publicly funded projects will have to meet the BIM protocol. Public sector contracts are worth almost £37 billion per year, making up a considerable proportion, 38 per cent, of all UK construction output.

In future, bidders on public building projects will be required to use BIM, and this trend is already affecting privately procured building projects. The adoption of BIM is expected to enable greater productivity, and to deliver

projects on time and within budget. Importantly, it will help the industry to meet its obligations for a low-carbon future.

However, lack of education, skills and trained professionals are among the major obstacles to the adoption of BIM in the industry. UWE's postgraduate certificate, postgraduate diploma and master's degree courses in BIM in Design, Construction and Operations aim to respond to this challenge.

UWE Bristol programme leader Professor Lamine Mahdjoubi said, "Since BIM was introduced in the Architecture, Engineering and Construction (AEC) industry, it has gone from being a buzzword with a handful of early adopters to a worldwide focus of the construction industry.

"Many of the world's leading architecture, engineering, and construction firms are on the way to adopting BIM. However the majority of the construction industry is in the hands of small and medium enterprises (SMEs) who are not ready for such a sudden change. According to a recent report of the

Federation of Master Builders (FMB), construction SMEs are failing to win 9 out of 10 public sector contracts.

"What sets this programme apart is the context of inter-professional and multi-disciplinary approach and expertise that exists in UWE's Faculty of Environment and Technology.

"Unlike existing postgraduate programmes in BIM, which tend to focus on specific aspects of building information management, such as design or sustainability, this new programme is more holistic in its approach and deals with the whole built environment life cycle, including design, construction, operation, maintenance, and sustainability.

"This unique programme emphasises innovative sustainable and collaborative practices in building information modelling and management. It will be distinctive in offering more opportunities for our students and our graduates through working closely with our key partners such as Stride Treglown Plc who are currently leading the South West BIM hub, and BAM Construction Ltd."

news bytes

Visit www.architectsdatafile.co.uk and enter the reference number to view more information

Green light for sympathetic redevelopment of London landmark...
Ref: 35006

The Winter Gardens at Swinhay House star as 'Appledore' in latest version of Sherlock TV Drama...
Ref: 41649

A consortium of three companies has been selected to develop Bangor University's residential site at St Mary's...
Ref: 18958

College wins highly commended award at southern staffordshire design awards...
Ref: 25818

Atkins' study reduces travel time on key Denmark to Germany rail route...
Ref: 44126

SUFFOLK

Assael Architecture to design pioneering waterside development

Assael Architecture has been appointed by Cardy Construction Limited to develop a £150,000,000 mixed-use regeneration scheme on an existing brownfield site on the edge of Lake Lothing, Lowestoft, Suffolk.

The unique environmentally lead masterplan aims to deliver the local authority's aspirations for a new sustainable waterside community that will build on the area's maritime setting.



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AWARD

Birmingham New Street Station's £600 million renovation is international award finalist



The £600 million renovation of Birmingham New Street Station has beaten global competition to make the finals in the 'best urban regeneration project' at the world's biggest property trade fair.

The new-look station, which was unveiled to the public last April, is among four finalists at the MIPIM Awards 2014.

Birmingham New Street station is designed by AZPA architects and developed by construction company Mace in partnership with Network Rail.

Other finalists in the category include London's Battersea Power Station, Saint-Michel's Village in Paris and Kö-Bogen, in Düsseldorf.

Sir Albert Bore, Leader of Birmingham City Council, said: "The transformation

of Birmingham New Street, alongside Grand Central, will deliver not only a transport, shopping and community hub in the heart of our city and a gateway to the wider region, but will also have a catalytic effect on further regeneration of the city centre and attracting businesses to Birmingham.

"Reaching the finals, pitched against some of the most prestigious projects in the world, is testament to our ambition as a city."

There were some 150 entries from 39 countries in seven categories.

The winners will be announced during the MIPIM Awards Ceremony which will take place on Thursday 13 March at the Grand Auditorium of the Palais des Festivals, Cannes.

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www.architecture.com/whatson**Royal Gold Medal & Fellowships Dinner 2014**

25 February, London

www.architecture.com/whatson**Greenbuild Awards**

7 May, Manchester

www.greenbuildawards.co.uk**British Homes Awards**

20 June, London

britishhomesawards.co.uk**CONFERENCES & SEMINARS****Accessible House: what makes good practice?**

20 February, Birmingham

www.architecture.com/whatson**Growing Communities: Meeting the Housing Challenge**

25 February, London

www.buildingcentre.co.uk/events**The Dutch Connection: research, innovation and partnerships**

4 March, London

www.buildingcentre.co.uk/events**EXHIBITIONS****Turkishceramics Kiosk Challenge**

21 February - 14 March, London

www.buildingcentre.co.uk/galleries/galleries_main.asp**Wandering Words – Sensing Spaces Evening Event**

7 March, London

www.royalacademy.org.uk/events**Stiff + Trevillion Practicing Architecture**

Until 17 March, London

www.newlondonarchitecture.org/exhibitions.php**The Brits Who Built The Modern World**

Until 27 May, London

www.architecture.com/whatson**New British Works: Today – Tomorrow**

Until 27 May, London

www.architecture.com/whatson**Empire Builders: 1750 - 1950**

Until 15 June, London

www.architecture.com/whatson**John Pantlin: photographing the mid-century home**www.architecture.com/whatsonwww.architecture.com/whatson**FESTIVALS****Wondercool**

February, Copenhagen

www.wondercoolcopenhagen.com**Clerkenwell Design Week**

20 - 22 May, London

clerkenwelldesignweek.com**London Festival of Architecture**

1 - 30 June, London

www.londonfestivalofarchitecture.org**The International Festival for Business (IFB) 2014**

June - July, Liverpool

www.ifb2014.com**TALKS, LECTURES & DEBATES****The Universe in the Landscape**

27 March, Newcastle

www.architecture.com/whatson**Writing architecture? – Sensing Spaces Evening Event**

31 March, London

www.royalacademy.org.uk/events**TOURS****Eco Open Houses**

October 18-19 and 25-26,

Brighton & Hove

www.ecoopenhouses.org**Open House London**

20 - 21 September, London

www.londonopenhouse.org**TRADE SHOWS****Retrofit Roadshows**

Date left: Spring, Bath/Bristol

Spring, Glasgow

www.retrofit-roadshow.co.uk**UK Concrete Show**

27 - 28 February, Birmingham

ukcs2014.businesscatalyst.com**kbb Birmingham**

2 - 5 March, Birmingham

www.kbb.co.uk**Ecobuild**

4 - 6 March, London

www.ecobuild.co.uk**Sustainability Live**

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www.sustainabilitylive.com**Greenbuild Expo**

7 - 8 May, Manchester

www.greenbuildexpo.co.uk**Design in Mental Health Conference & Exhibition**

13 - 14 May, Birmingham

www.designinmentalhealth.com**May Design Series**

18 - 20 May, London

www.maydesignseries.com**The Eco Technology Show**

26 - 27 June, Brighton

www.ecotechnologyshow.co.uk**FIREX / IFSEC International**

17 - 19 June, London

www.ifsec.co.uk**100% Design**

17 - 20 September, London

www.100percentdesign.co.uk

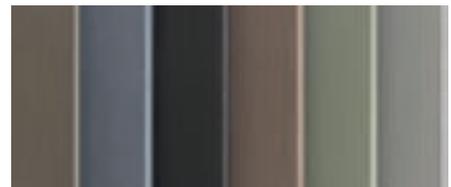


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SHOW REVIEW

Another successful Surface Design Show

Surface Design Show 2014 has upheld its position as the leading Show for innovative interior and exterior surfaces among industry professionals.

Now in its 11th year, the show proved an even bigger draw for key interior design and architectural studios such as Zaha Hadid Architects, Jestico + Whiles, Foster + Partners, Studio Egret West, Sheppard Robson, Based Upon and Hawkins\Brown who flocked to the only UK event to focus exclusively on surfaces.

Exhibitors were delighted by the large number of visitors to the show and the results they achieved.

This year's show was the largest to date with inspirational products and displays ranging from pioneering natural materials and ceramics to high quality printed concrete walls. Global Color Research provided interior designers, architects and specifiers with exclusive insights into Spring/Summer 2015 colour trends and Arup showcased actual fragments from their latest portfolio of innovative building facades.

The show opened with a fun and informative debate entitled 'Traditionalism, Modernism and the Vernacular'. Architect and radio and television broadcaster Maxwell Hutchinson discussed and debated the role of materials in architecture and the vernacular in the built environment with a dynamic panel of speakers.

Cany Ash of Ash Sakula chaired the popular and lively PechaKucha evening



which saw presentations from some of the most influential and innovative designers such as Adam Furman, Ron Arad; Pia Pelkonen, Ardesia Design; Mark Ridler, BDP Lighting and Marc Thomas, Millimetre.

On the final day of the show the winners of the Surface Design Awards were revealed. Hosted by Annabelle Filer of SCIN and with a keynote address by Sarah Featherstone of Featherstone Young, the winning projects spanned the globe from the UK, Belgium, USA, UAE, China and Japan, with Squire and Partner's Mayfair House winning the 'best of the best' Supreme Award.

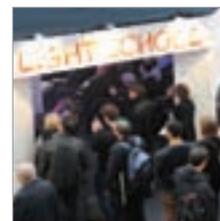
Finally, one of the highlight of the event was the launch of Light School, the show's new focus on lighting, presented by Sharon Stammers and Martin Lupton of Light Collective. The 'classroom' was

host to a number of leading members of the lighting design community presenting tutorials to a packed audience who left 'inspired by light'.

Sharon Stammers and Martin Lupton of Light Collective said: "Light School was created as we believed the Surface Design Show was the best platform to share our lighting knowledge and inspire the architectural and interior design community. The fact that every talk had people spilling out the door of the school room means there is a need for it. The program was enthusiastically received and we hope to be back in 2015."

Show Director, Christopher Newton said: "The show was a huge success. There was a real energy in the hall and the exhibitors were greatly encouraged by the number of serious buyers it attracted."

'One of the highlight of the event was the launch of Light School, the Show's new focus on lighting, presented by Sharon Stammers and Martin Lupton of Light Collective'



THE SUNDAY TIMES



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ABERDEEN

Bird's eye view of Scotland's largest new town unveiled



A bird's eye view of how 2,000 acres of Aberdeenshire farmland will be transformed into Scotland's largest new town has been unveiled by Lord Southesk, director of Elsick Development Company.

Work started on site in October 2013 and the first houses will be available to buy later this year.

"This animation shows that Chapelton is fundamentally different to other developments. The complete town is planned from the outset," said Lord Southesk.

"There will be places to work, places to eat and socialise, shops and schools. Every day needs will be within a five minute walk and because there is 40 per cent green space the entire built area will feel open.

"The architecture blends the old with the new. It draws influence from older styles built with the latest moderns and the latest design features to

accommodate modern living."

Housebuilders ZeroC Holdings, AJC Homes and A & J Stephen will start to deliver the first houses from spring 2014.

Town architect Gavin Murray from Brooks Murray Architects said: "It is important Chapelton sits comfortably in the Aberdeenshire landscape, so we have drawn heavily from the best precedents set by a number of neighbouring historic towns and villages, including Stonehaven and Banchory."

Chapelton is five miles south of Aberdeen.

In a five minute animation, visuals of homes, high streets, parks, schools and a medical centre at the 8,000 home Chapelton development are revealed – the first time the whole £2 billion development has been presented. Go to www.architectsdatafile.co.uk and enter ref: 51679 to view the animation.

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PUBLICATION

RTPI London launches Kaleidoscope City in honour of its centenary

The Royal Town Planning Institute (RTPI) in London and Colliers International celebrated 100 years of professional town planning last night with the launch of a new publication, *Kaleidoscope City: Reflections on Planning and London*.

How should London accommodate the two million new residents anticipated by 2030 when England is nationally building less than 100,000 new homes per year? What are the impacts of growth likely to be on Britain's great provincial cities, or the grain of local development and occupation in London itself? *Kaleidoscope City* is the first publication to exclusively unveil the manifestos of the most celebrated practitioners and theorists in the built environment today to tackle these questions, including: Duncan Bowie; Paul Cheshire; Michèle Dix; Terry Farrell CBE; Richard Florida; Sir Peter Hall; Colin Haylock; Stewart Murray; Liz Peace CBE; Lord Richard Rogers; Nikos A. Salingaros; Shaun Spiers; Peter Stewart; and Peter Tyler.

The collection of 25 essays has been commissioned, edited and published by Jonathan Manns, a prominent British urbanist and associate director, planning at global property advisors, Colliers International, in conjunction

with the RTPI London. Manns is a member of the editorial board of the Journal of Urban Regeneration & Renewal and has commented extensively in Europe, Asia and the USA. He sits on various professional committees in London and internationally, as well as being an RTPI ambassador, expert advisor to Grand Designs Live and trustee of the London Society. *Kaleidoscope City* is now available in both printed and electronic formats.

Championed by Sir Edward Lister and internationally well-received, the launch of *Kaleidoscope City* commences a year of special centenary events which will debate and discuss present and future issues in the planning of the capital, 100 after the founding of the RTPI and 70 years after the *Greater London Plan* published by Sir Patrick Abercrombie.

The RTPI London will also be holding monthly themed events and study tours, based on the content of *Kaleidoscope City*, focusing on a range of issues including housing, infrastructure, urban resilience and suburbs/green belt culminating; in an annual planning summit in November 2014 that will look towards the next 100 years of planning in London.



COMMENT

Over 1,000 additional architects required by 2018

Employment in the architecture sector is set to grow to 46,370 by 2018, according to new research released today by CITB.

The CITB's Construction Skills Network (CSN) forecast shows that 1,200 glaziers will be required over the next five years to meet growing demand, and the UK's construction industry will need 36,400 additional employees overall.

The change in fortunes is being fuelled by forecast demand for housing, which is expected to account for over a third (37 per cent) of the UK's total annual construction output between now and 2018, in addition to the demand for 245,000 new homes across the UK each year and the impact of government's Help to Buy scheme.

Across the whole of the construction

industry, the employment footprint is forecast to show that plant mechanics (3.9 per cent) civil engineering operatives (2.8 per cent) and scaffolders (2.4 per cent) will be most in demand, while at the other end of the scale, fewer plasterers (-1.2 per cent), steel erectors (-1.0 per cent) and labourers (-0.7 per cent) will be recruited into roles.

While marginal employment growth is welcome news for an industry which saw 40,000 construction jobs shed and public non-housing work contract by 13 per cent in 2013, employment levels within the sector remain 196,000 below pre-recession levels.

The CITB is calling for sustained investment in infrastructure and industrial projects to help secure longer-term growth.

James Wates, chairman of CITB,

said: "The CSN report shows that the economy is turning the corner and the architecture sector will benefit from that. But growth needs to be sustainable; underpinned by long-term infrastructure projects and continued investment.

"The government's Help-to-Buy scheme has kick-started demand across the housing market and announcements on nuclear power, rail and roads have the potential to breathe fresh life into infrastructure and industry. Alongside this, we'd welcome fresh incentives to encourage house building, and the assurance that major infrastructure projects in the pipeline go ahead as planned.

"Clarity and certainty of future projects is an important element of a sustained recovery. That gives employers the confidence to train and to plan".

news bytes

Visit www.architectsdatafile.co.uk and enter the reference number to view more information

Edited, international and heralding the new – DX Freight is back...
Ref: 55171

London's Growing... Up! The rise and rise of London's tall buildings...
Ref: 87964

New guidance released on benefits of building controls and building energy management...
Ref: 87330

£14 million Graves extension to put Sheffield at heart of Olympic legacy...
Ref: 17049

Blacksheep celebrates the city in latest brand & design concept, Lanes of London...
Ref: 86574

Debrett's announce the most influential and inspiring people in Architecture and Property in Britain today

Debrett's has recognised people of influence and achievement in British society for almost 250 years. In 1769, Debrett's produced the *Peerage*, and from 1982, recognised the contemporary achievements of over 22,000 people from every sector and spectrum of society, in the *People of Today*. To extend their recognition of influential, inspiring and achieving individuals, Debrett's today announces the *Debrett's 500 People of Today*.

The Debrett's 500 published in full in *The Sunday Times* on 26 January 2014 has been carefully compiled by independent panels of specialists in each of the 25 sectors. The architecture and property categories were chaired by Hugh Pearman, *The Sunday Times* architecture critic and editor of RIBA Journal and Anne Ashworth, *The Times* property and finance editor respectively.

Architecture:

Dame Zaha Hadid, architect; Lord Rogers, Rogers Stirk Harbour + Partners; Alison Nimmo, chief executive, Crown Estate; David Adjaye, architect at Adjaye Associates; Victoria Thornton, founder of Open-City; Lord Foster, architect at Foster + Partners; Alison Brooks, architect; Charles Jencks, landscape architect; Amanda Levete, architect; Niall McLaughlin, architect; Sarah Wigglesworth, architect; Sir

David Chipperfield, architect; Deborah Saunt, architect and founder of DSDHA; Alain de Botton, Living Architecture; Vicky Richardson, British Council; Peter Murray, architectural journalist; Eva Jiricna, architect; Sir Terry Farrell, architect, Farrell & Partners; Francine Houben, architect at Mecanoo; Sunand Prasad, architect, Penoyre & Prasad - Former president of RIBA. Full biographies can be found at www.debretts.com/people/debretts-500/architecture

The inaugural 500 also includes luminaries such as David Beckham and Mo Farah from the world of sport, Stephen Fry and Sir Elton John for their charity work, Pete Tong and Emily Eavis for their services to music, and fashionistas Katie Grand and Cara Delevigne.

Inspired by the Debrett's 500 and the Debrett's *People of Today* – and in response to the figures showing that the majority of graduates gaining first jobs also come from fee-paying schools – Debrett's is also creating a Foundation. The purpose of the Foundation is to support, champion and inspire social mobility to ensure that the next generation of leaders, the *People of Tomorrow* are from all walks of life and backgrounds.

Joanne Milner, chief executive at Debrett's, commented: "Debrett's is delighted to launch, in association with the *Sunday Times*, the Debrett's 500. A positive endorsement and recognition

of Britain's 500 most influential people. As we celebrate the achievements of the best of British, it is a fantastic opportunity to consider how we can inspire the next generation of leaders. Debrett's is uniquely placed to help provide the 'social capital' needed by young people from less privileged backgrounds to ensure they have an equal opportunity to succeed. The Debrett's Foundation will combine Debrett's expertise on business etiquette training with access to Debrett's influential networks, so that these young people benefit from expert coaching in skills such as interviewing and networking, together with access to a network that is able to facilitate internship and work experience opportunities."

The Debrett's *500 People of Today* has been published in association with *The Sunday Times*. Eleanor Mills, editorial director at *The Sunday Times*, commented: "The *Sunday Times* was keen to partner with Debrett's on the list of Britain's 500 Most Influential because of their commitment to using their brand with its connotations of privilege and the peerage to help boost social mobility and give those with less opportunity the chance to acquire mentors and the kind of soft skills necessary these days to get on. We welcome the launch of their new foundation and are delighted to run the list in this weekend's *Sunday Times*."

news bytes

Visit www.architectsdatafile.co.uk and enter the reference number to view more information

New residential project – Zero Carbon House by Coupdeville Architects...
Ref: 47873

Willmott Dixon appointed for exemplar stage of NW Bicester eco town...
Ref: 92551

JDS Architects' Kalvebod Waves Nominated for Big Arne Award...
Ref: 54728

Sim Van der Ryn Reflects on 50 Years of Architectural Design in New Book from Routledge...
Ref: 81797

Marchini Curran Associates (MCa) have designs on new data centre...
Ref: 12650

United Nations recognises postgraduate's talent for sustainable design...
Ref: 16303

BOOK

Lessons from Modernism

Lessons from Modernism, Environmental Design Strategies in Architecture, 1925–1970 by Kevin Bone covers the hottest topics in contemporary architectural design and architectural history—the focus on sustainability and the evaluation of the modern movement. In partnership with The Cooper Union, Bone explores the ways in which the straightforward, functional approach of modernist design creates environmentally sensitive solutions. Visit the website www.architectsdatafile.co.uk and enter ref: 69707 for more information.

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*Active Atrium
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cpd focus

UNDERSTANDING AND SPECIFYING INVISIBLE SOUND SOLUTIONS



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

01480 354390
www.amina.co.uk

enq. 107

NEW CPD LAUNCHED BY FRANKE WASHROOM SYSTEMS



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

ws-marketing.gb@franke.com

enq. 108

LRWA CPD SEMINAR



The **LRWA** (Liquid Roofing and Waterproofing Association) has announced the launch of its RIBA approved CPD, available online for specifiers, architects, and surveyors. "Continuing Professional Development is crucial for anyone working in the construction industry," commented Terry Wain, LRWA technical secretary. The CPD 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. 109

SLIDING & FOLDING DOOR GEAR – SPECIFICATION AND DESIGN



P C Henderson is pleased to announce that its newly updated CPD, *Sliding & Folding Door Gear – Specification and Design*, has been approved by RIBA. Attendees will discover the benefits, features, functions and applications of sliding and folding door hardware in residential, industrial and commercial projects. They will also learn what common problems to avoid and what tools can be used in order to specify accurately, whilst taking into consideration new developments in hardware technology, security accreditations and environmental standards.

0191 377 0701
www.pchenderson.co.uk

enq. 110

WATER-BASED RADIANT HEATING SOLUTIONS

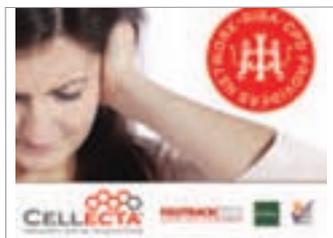


A division of **SAS International**, HCP, is pleased to announce that it has produced a new RIBA-accredited CPD on *Water-based Radiant Heating Solutions*. The CPD seminar covers the benefits of specifying Radiant Heating systems which meet energy efficiency demands. The presentation also looks at the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

0118 929 0900
www.sasintgroup.com

enq. 111

SOUND PROOFING INSULATION SOLUTIONS



Cellecta's Cutting Edge Acoustics CPD has received the stamp of approval from RIBA. The RIBA "CPD Assessed Material" covers the fundamental characteristics of acoustic Building Regulations Part E and provides guidance on sound proofing all types of new build and refurbishment floors and walls, including Robust detail and Pre-Com. Cellecta's sound proofing CPD is available to complete online now via the RIBA website.

08456 717174
www.cellecta.co.uk

enq. 112

SWISH BUILDING PRODUCTS CPD SEMINARS



Swish Building Products is a UK supplier of PVC roofline and cladding, including fascias, bargeboards, window boards and trims, internal and external cladding, and rainwater. Many Swish designs have become the industry standard. Accredited with the responsible sourcing certification BES6001 in addition to previously secured certifications ISO9001, ISO14001 and OHSAS18001, Swish holds CPD seminars focusing on sustainability and the low-maintenance benefits of cellular PVC.

01827 317 200
www.swishbp.co.uk

enq. 113

SPECIFYING HARDWOOD TIMBER EXTERNAL DOORSETS



Urban Front is booking up fast this year for its exciting RIBA certified CPD *Specifying Hardwood Timber External Doorsets*. The CPD covers insulation, acoustics, door security, passive house and touches on challenges with hardwood doors. There is also the opportunity to handle various species of timber, locks, cylinders and door samples. The CPD last approximately one hour including question time. Urban Front are currently booking for May.

01494 778787
www.urbanfront.co.uk/cpd20

enq. 114

SWANSEA

World's first purpose built tidal lagoon moves forward with submission of planning application

First step to supplying 10% of the UK's domestic electricity by 2023

A Development Consent Order application has been submitted to the Planning Inspectorate (PINs) for the world's first purpose built tidal lagoon in Swansea Bay.

As a project of national significance, the application, which has been developed through extensive consultation in Swansea Bay, will now be reviewed by the Planning Inspectorate before the public examination process commences, and then determination by the Secretary of State for Energy & Climate Change.

Swansea Bay Tidal Lagoon will create a new waterfront for Swansea, a focus for water-based activities and a visitor destination in its own right. The master-plan, design coordination and public realm design for the project, by London

2012 Olympic Park designer LDA Design, creates a 'Maritime Park' between Swansea Bay's beach to the west and Crymlyn Burrows natural dune system to the east.

LDA Design's master-planning of the renewable energy lagoon includes sea and landside areas. On the seaward side, the work includes the establishment of new lagoon walls which will capture an area of water that will form the focus for a dynamic public realm, including new beaches, water sports, art and mariculture.

The scheme includes an iconic 3,500 sq m visitor, operations and maintenance building, designed by Juice Architects. Sited at the end of the Lagoon's seawall, with access for visitors

by foot, cycle and electric bus, it is made up of a series of overlapping shells sculpted to form a bowl like structure with an outer wall providing shelter from wind and waves. It is finished in highly textured concrete with tall window-like fissures between the shells offering views around the Bay.

The building will provide a leisure, cultural and educational base and is sited adjacent to the turbine house to enable access to the turbines as part of the visitor's experience. It will also be self-sufficient with all energy required being captured from renewable sources or transferred through recycling waste energy as a by-product of the turbines, including solar panels on the roof.

Another important component of

news bytes

Visit www.architectsdatafile.co.uk and enter the reference number to view more information-

Breaking New Ground
with emerging
architectural talent...

Ref: 61053

First names announced
for Clerkenwell
Design Week...

Ref: 72543

Cities and Other Ruins
- Reflections on Astley
Castle by Witherford
Watson Mann...

Ref: 84866

79 projects selected
to receive a Civic
Trust Award,
Commendation or
Community
Recognition...

Ref: 28775

Woman Architect of
the Year shortlist...

Ref: 35560





the Lagoon master-plan, is the 4,000 sq m international watersport and hatchery centre, designed by Faulkner Browns.

Inspired by traditional fishing warehouses and boat houses, the watersport and hatchery centre has been designed to complement local industry and heritage. It will provide an 'outdoors' focussed centre of excellence for both recreational and competitive sporting facilities alongside sustainably focussed research and development of various marine industries. It will include operational and maintenance facilities, boat storage and wet changing areas, a gateway facility, bio-reactor greenhouse facility and a hatchery.

The dedicated hatchery will house a fully serviced aquaculture system that can support the development and hatchery of oysters and lobsters through an applied seawater circulation system of tanks and hives. The oyster hatchery spawning process will be enhanced by a glass

envelope system to generate greenhouse conditions for optimised algae growth with a bio fence network for algae cultivation. The greenhouse structure is designed to harness solar power, generating clean, low-energy nutrient supply to the adjacent hatchery.

Mark Shorrocks, CEO of Tidal Lagoon Swansea Bay, said that the submission of the application marks a turning point in the development of the UK's tidal resource.

Alister Kratt, Partner of LDA Design, said: "This naturally powered zero carbon scheme is enhanced by these destination buildings, that form a key part of the master-plan. The lagoon will provide a source of clean, renewable energy for the future and the entire maritime park will make a valuable contribution to the public realm of Swansea Bay and its waterfront."

If given the go-ahead, construction of the Swansea Bay lagoon will begin in the first half of 2015, with first power being generated in 2018.



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01604 770711

enq.116

Vortice breaks new boundaries



European ventilation manufacturer **Vortice**, whose UK office is in Burton on Trent, is expanding further into South American markets. The company has long been active in Russia, the Far East, Middle East and Australasia and has now

made significant progress in South America in Costa Rica, Panama, Columbia and Venezuela. Renowned for its well designed products and excellent customer service, Vortice has been particularly active in creating energy efficient ventilation products over the last ten years. UK General Manager Kevin Hippey said: "We've done extremely well in the last few years in the UK despite a very difficult trading climate and this is due in no small part to our product excellence."

01283 492949 www.vortice.ltd.uk

enq.117

Firestone receives further certification



Firestone Building Products are delighted to report that the eighth issue of the BBA Agrément Certificate 89/2216 has been awarded for its RubberGard™ EPDM single ply roofing systems. In addition to the fully updated technical standards featured in the new certificate, a study of

long-term roof installations in the UK was completed during 2013. The single ply membrane used as a waterproofing membrane as part of a flat roof system was assessed in a variety of key areas such as weathertightness and durability. All available evidence now indicates that the Firestone RubberGard EPDM roofing system should have a life in excess of 30 years.

enq.118

Architects and contractors – go collaborative!



A leading roofing contractor based in East Kent, A.E.M.S. Limited, is extolling the virtues of working in close collaboration with architects and project managers to deliver high quality, consistent and cost-effective results, as well as the benefits of being a member of NFRC. Chris Whale, managing director of A.E.M.S. Limited – a roofing and

associated building company – explained: "Architects and project managers are key to the roofing industry, and never more so than now." The decision to widen NFRC's services to the architectural community is based on the ever-changing landscape of legislation for roofing and the pivotal role that architects and specifiers play in the design and specification of roofs and roofing materials.

enq.119

Vent-Axia reaches Business Awards final



Sussex-based British fan manufacturer **Vent-Axia**, a leader in low-carbon ventilation, is delighted to announce that it has beaten stiff competition to receive a Ruban d'Honneur in the 2013/2014 European Business Awards. Selected to represent the UK in Europe as a finalist in 'The Infosys

Business of the Year Award with a turnover of €26-150 million' category, Vent-Axia will now go on to compete with nine companies from across Europe in the third and final round of judging, with winners to be announced in May. Adrian Tripp, CEO of the European Business Awards says: "Vent-Axia deserves the very best of luck in the highly competitive final round."

0844 856 0590 www.vent-axia.com

enq.120



EcoHaus design challenge launched for 2014

Challenging convention and inspiring innovation The British Homes Awards have been pivotal in providing a catalyst for change in the way we design and construct our homes and in the process recognise and showcase exemplars of best practice.

In his foreword to the Awards' publication: *Design. The key to a better place* former Housing Minister The Rt.Hon. Mark Prisk commented: "By recognising and rewarding schemes and projects which reach the highest standards the British Homes Awards play an important role in championing design excellence. Even more significantly the Awards' annual design competition actually involves our communities, inviting the public, as readers of a national newspaper, to share their views and vote on what they would like the ideal home to be."

The 2014 challenge: EcoHaus

Win the competition – we'll build your design

Building on this successful legacy and in partnership with AJ, the Passivhaus Trust, Kingspan Insulation and Habitat First Group (who champion design excellence and the preservation and encouragement of the natural habitat) this year's British Homes Awards' competition EcoHaus challenges UK architects to design an aspirational home to Passivhaus standards for a waterside site, Siverlake in Dorset (www.silverlakedorset.com), where planning permission for 1,000 units has just been granted and this is where we'll build your winning design.



© Anne Thorne Architects

Designed with the Passivhaus methodology, the winning design will be of stunning architectural merit, visually arresting, environmentally smart and offer a healthy environment for the occupants: a home that everyone loves. Designs are invited for both the individual home and group of homes demonstrating how private and public space at a waterfront site can be combined to enhance the community living

environment and deliver an aspirational lifestyle.

Pioneered and developed in Germany, Passivhaus is the world's leading low energy building standard, focusing on the building fabric combined with high levels of insulation and optimal solar gain. Excellent indoor air quality together with high levels of heat recovery are achieved with advanced heat recovery ventilation systems that transfer heat from outgoing stale air to fresh air coming into the house. For further details visit www.passivhaustrust.org.uk

The design brief for the challenge is available to download from: www.britishhomesawards.co.uk/2014/design-competition/ and all submissions must be received by 2 May.

Call for category entries

By showcasing the very best of British homes in partnership with the Sunday Times, the Awards have established an unrivalled pedigree of championing design excellence across our built environment. In addition to the annual design competition, the Awards recognise and reward design and construction excellence within specific categories. Entries are now invited into the ten categories featured on www.britishhomesawards.co.uk

Read all about it

Those shortlisted for EcoHaus or for an Award will be featured within an exclusive Sunday Times British Homes Awards supplement in June. All winning and commended schemes will be presented within a 12 page British Homes Awards supplement published within *Home* in September.

Gallery exhibits of the winning schemes and projects will be displayed at The Building Centre in Store Street, London and extensively featured in the 2015 edition of the award winning publication *Design. The key to a better place*.

All winning and commended designs will be listed on www.sundaytimes.co.uk/britishhomesawards and on www.britishhomesawards.co.uk

The Awards presentation

The Awards will be announced at a luncheon at The London Marriott, Grosvenor Square on Friday 19 September. To reserve your place please visit www.britishhomesawards.co.uk/reserve-your-place/

'The British Homes Awards play an important role in championing design excellence'

Former Housing Minister The Rt.Hon. Mark Prisk

Competition Partners:



HABITAT FIRST



editor's focus

Robeys

Introducing the Oslo, exclusively available through Robeys. Its extreme simplicity ensures that this fireplace takes centre stage. Offering a 360° view of the fire, the curved glass and beautiful majolica cladding, which is available in a wide range of colours, have been cleverly designed for open plan living. The semicircular glass panels are mounted on two independent motor-driven systems that can be controlled separately, allowing them to rise and fall. Plus, the Oslo has flawless combustion, ensuring it is in harmony with the environment.

enq.121

Gainsborough Specialist Bathing

Gainsborough Specialist Bathing has launched a range of accessible wet rooms suitable for long term and acute care developments. These stylish wet rooms offer architects, designers and contractors a versatile and durable solution that meets the unique challenges of assisted bathing. Suitable for new-builds or refurbishment projects, these new wet rooms incorporate a level access wet deck area, choice of thermostatically controlled showers, integrated shower seat, half-height doors or flat glass screen plus a variety of wall paneling and safety flooring in a range of finishes. Gainsborough also provides a complete end-to-end installation service from concept to completion.

enq.123



Bell-Chem Products

The Dolphin Behind Mirror Module is the all new solution to the modern busy washroom. This modular system has been developed for all types of users – from architects to janitors. It incorporates all the facilities needed to wash, soap and dry your hands standing in the same position, including the latest technology for infrared sensor taps, high speed low energy hand dryers and infra-red foam soap system. The 'plug and play' design of the module minimises the time spent designing, constructing and servicing this area, with the only requirements being a solid wall, brick or plywood, hot and cold water supply feeds and a 32amp electrical supply.

enq.124

Schiedel

Designed for the new generation of air-tight homes, Schiedel Absolut XPert is the first Passivhaus certified chimney system worldwide. Air tightness is built into the system. Suitable for use on all fuel types, with its GW3 rated ceramic profiled liner, Absolut XPert offers condensate resistance even after a soot fire. Thermal performance of the appliance is optimised through the provision of combustion air at the right temperature through the integrated insulated shaft. Heat transmission between the warm interior and cold exterior of the building is avoided through the use of the thermal chimney blocks.

enq.125

Ampteam

The gutters on John Lewis' department store at High Wycombe had been problematic for some time and previous attempts to cure the leaks using a plastic liner had eventually failed, as the liner had up-lifted, probably due to wind or possibly even thermal movement and this had allowed water ingress behind the lining, finding the original leak positions. It was decided to remove the plastic liner and replace it with the Unifold Gutter Lining System by Ampteam. Unifold, when installed, is a completely rigid system and under normal conditions is not affected by wind-uplift or thermal movement. A total of 430 metres divided into eight no runs of both valley and parapet gutter profiles were installed.

enq.122



Spatial Structures

Spatial Structures, the Cheltenham based specialist manufacturer and builder of steel framed membrane covered buildings has been awarded the contract to build a covered training pitch for Championship football team Brighton and Hove Albion. The Spatial Structures facility will cover an area 78 by 60 square metres and will provide a half sized pitch, enabling training to carry on whatever the weather or time of day. The Brighton project further reinforces Spatial Structures growing reputation as a leading provider of steel framed fabric covered structures for a wide range of sports.

enq.126



Hurlingham

Hurlingham's quest is to create a distinctive collection of original and classic reproduction free-standing baths, while offering individual refinements to add something truly momentous to the bathroom. From bespoke genuine leather, to hand-gilded metal leaf embellishments, Hurlingham can tailor your bath to your wishes. With a range of stunning finishes, including hand polished and 3200 paint colours, the possibilities are endless. Hurlingham offer outstanding quality and unrivalled style. All baths are hand finished in the UK to meet its exacting standards.

enq.127



Normid

Another year over, same superb Normid Planholders. Tried and tested by thousands for over 40 years, Normid continues to provide innovation and quality from the best in British manufacturing. Recent customer comments concluded that Normid Planholders are: "sturdier, longer lasting, easier to use and better in price than competitors". Just as good as the products is the service: fast delivery, superb customer service and a willingness to go the extra mile makes Normid the obvious choice. Combined, these attributes make Normid a force to be reckoned with in the large format filing world.



Passivent

enq.128

Passivent's new architectural presentation entitled *Priority School Building Programme, Facilities Output Specification* is available now. The CPD covers acoustic design and ventilation strategies for school buildings detailing how the specification differs from previous guidelines, the new design criteria and demonstrates how the new Passivent Active Range has been specifically designed to meet these challenges. The Active Range offers the best attributes of a natural ventilation strategy with assistance from mechanical ventilation when required to allow for optimum energy efficiency.

enq.129



Eurobond launches BIM library

Eurobond Laminates has launched BIM files for its range of stone wool core internal and external wall and ceiling composite panels.

It includes material colours and COBie datasheet parameters and the designer is supported by a wide range of construction details.

The files are available in a number of file formats to help ensure that the majority of BIM users can benefit from using them.

The new BIM files – which include those for Europanel, Rockspan and Firemaster – are available via the company's new website or by contacting Eurobond Laminates Technical Service team.

02920 776677 www.Eurobond.co.uk

enq.130

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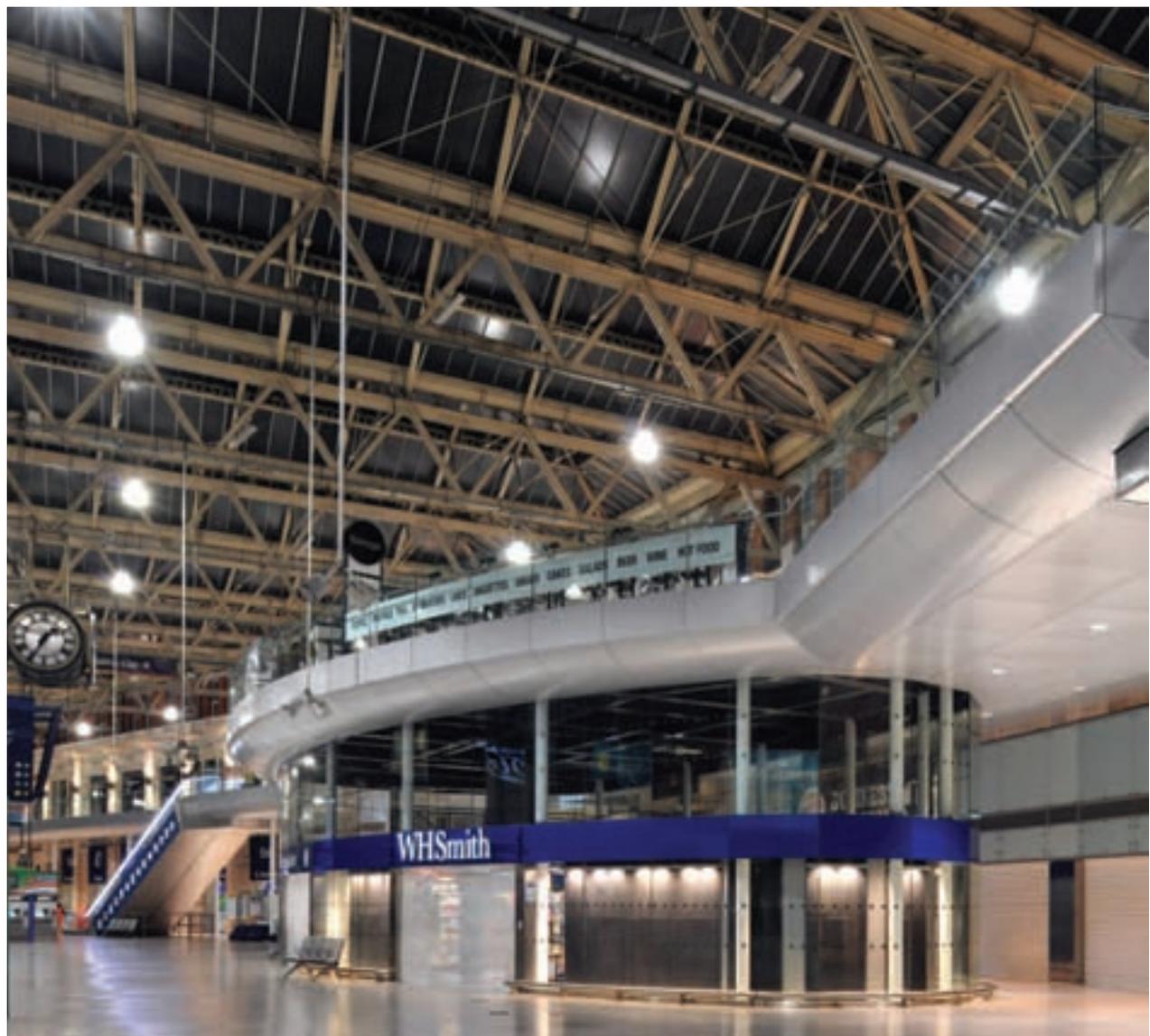
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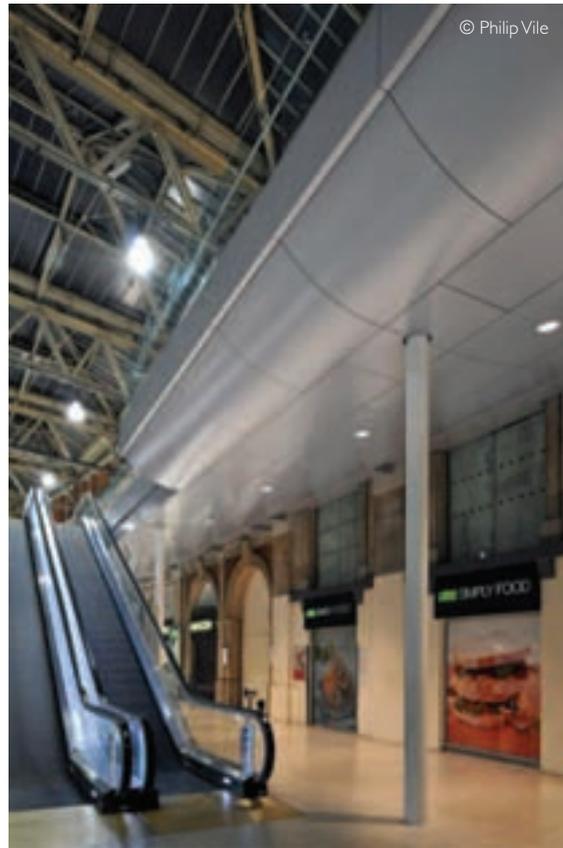


enq.131



Don't be afraid to face your Waterloo

Waterloo station concourse used to be a mad scrum that was daunting to all but the most seasoned commuters, but now the congestion has been eased and there are some great new shops and eating places, as James Pringle reports



'The pedestrian flow has been greatly improved by installing escalators and repositioning shops, previously located in the middle of the main concourse, onto the balcony'

Network Rail released station retail sales results last autumn that showed a 6.4 per cent growth in like-for-like sales for April to June 2013, while high streets only managed to add 0.4 per cent.

Trading at King's Cross and Waterloo in London benefited from major investment schemes that allowed new retail facilities to be added to the stations. All Network Rail profit from retail activity is reinvested in the railway.

Architects' Datafile profiled the King's Cross redevelopment in August 2012, so let's catch up with Waterloo. It's the capital's busiest station, and now it is home to a balcony of shops and eateries, which has been designed to reduce

congestion on the concourse for the 300,000 passengers who use the terminal every day.

The pedestrian flow has been greatly improved by installing escalators and repositioning shops, previously located in the middle of the main concourse, onto the balcony. With new escalators and lifts, the main station now has step-free access to the Waterloo East station.

Providing 1,860 sq m (20,000 sq ft) of additional retail space, the station's retail balcony brings new outlets for brands such as Yo! Sushi, Fat Face, Hotel Chocolat, Oliver Bonas, Links of London, Thomas Pink, Joules, Carluccio's, Kiehl's, Benugo's, a Sports Bar & Grill, and Corney & Barrow's new-concept bar, The Cabin. Once all the new shops are open, there will be 55,000 sq ft of shopping and eating across 38 stores.

The balcony is the longest at any British rail station, and is an eye-catching element of the £25 million improvements at Waterloo, as part of Network Rail's programme to improve facilities and create 'destination' stations. The company is keen to stress that its retail and commercial activities generate vital funds that are reinvested directly back into the railway, limiting costs to taxpayers.

Continued overleaf..

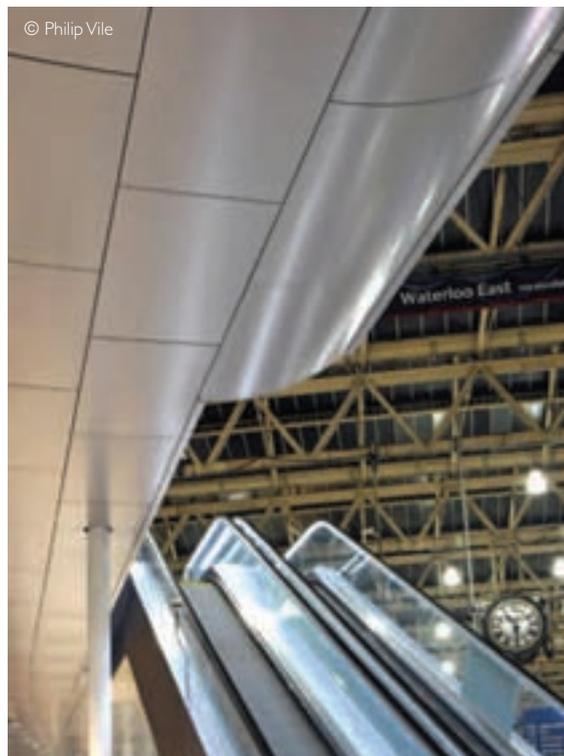
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‘As with the new western concourse at King’s Cross station in 2012, the Waterloo balcony work is part of our wider retail strategy to create ‘destination’ stations for both rail passengers and non-travelling customers’

David Biggs,
director of property

David Biggs, director of property, says: “We’re dedicated to improving the facilities, layout and retail experiences for millions of commuters nationwide through various station expansion projects within Britain’s major cities.

“As with the new western concourse at King’s Cross station in 2012, the Waterloo balcony work is part of our wider retail strategy to create ‘destination’ stations for both rail passengers and non-travelling customers. It also provides a crucial, sustainable source of income for the station, which can be reinvested directly into the rail network.”



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Tim Shoveller, managing director of the Network Rail/South West Trains alliance, adds: “Waterloo, as many of our customers know, is a very busy station. We have more than 90 million passengers passing through every year and there is 30 per cent growth predicted by 2030.

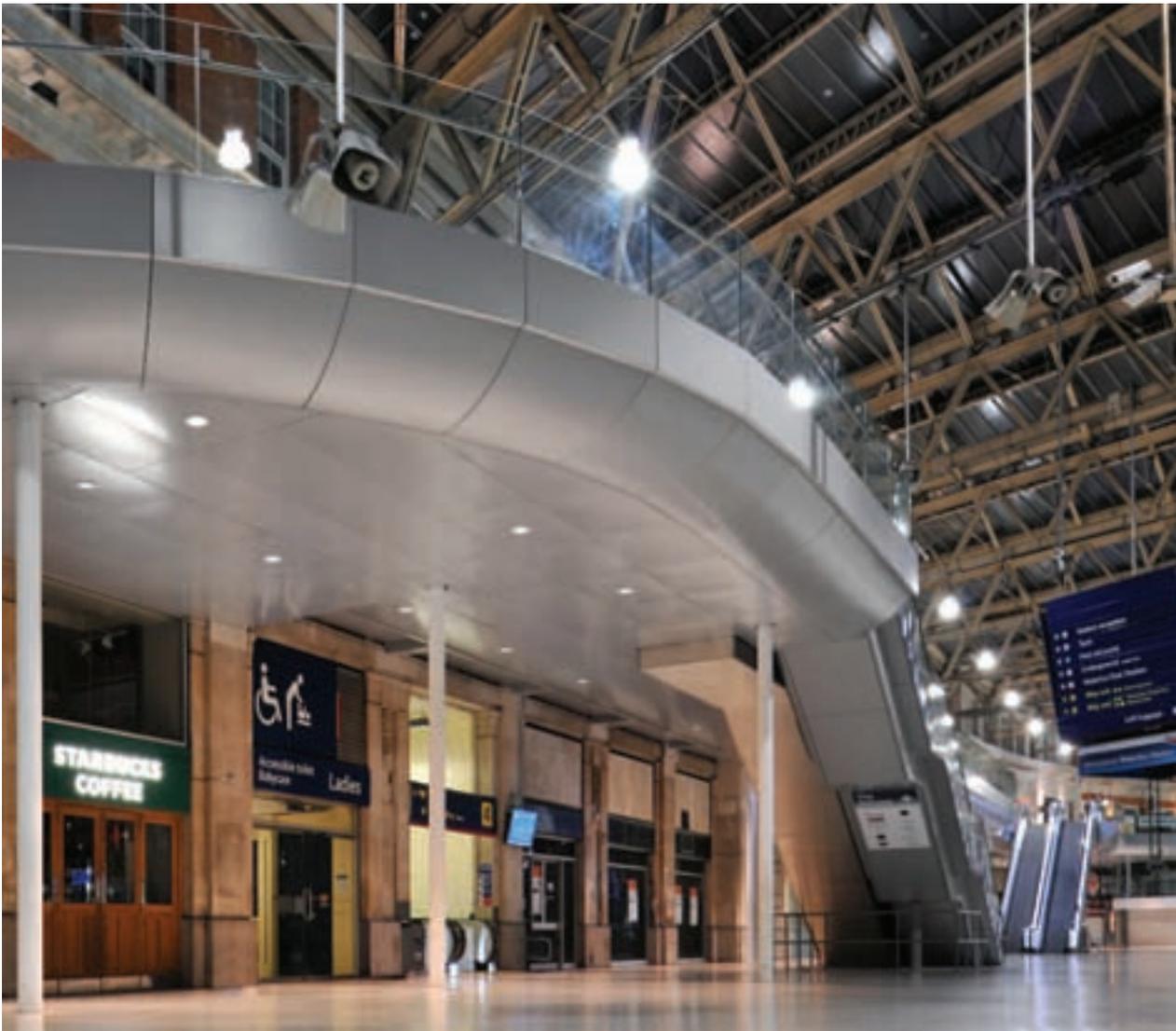
“Our challenge is to deliver extra capacity so our passengers can get the rail services they rely on. We needed to find a radical solution to improve the space and facilities at Waterloo.

“The opening of the balcony, with the removal of retail units from the concourse, crucially reduces congestion while still providing the facilities expected at a modern station. Passengers will now find it easier to get to and from their trains. The next vital stage is to extend the platforms so we can

run longer trains with more capacity, to cater for the predicted growth in passenger numbers.”

The refurbishment has taken place in a series of phases to avoid full closure of the important transport hub. Improvements at the station have included the creation of the ticket gateline – now the largest in Europe – across 19 platforms on the main concourse.

Bespoke metal ceiling tiles, concave coffered tiles with light apertures, bulkhead panels and column casings were specified from SAS International for this project. The SAS International Project Management team designed, manufactured and installed products, finished in SAS anti-graffiti paint, within the restricted time programme that was set



'This refurbishment created a modern, open space designed for increased capacity over the coming decade'

out. In this phase, completed in 2009, the SAS Project Management team worked closely with Pell Frischmann, structural engineers and also the architects and the main contractor, J Murphy & Sons.

Another critical linking mechanism to assist passenger flow at the terminus is the Peak Hour Subway, which was completed in 2010. This refurbishment created a modern, open space designed for increased capacity over the coming decade.

The subway, which is accessed from the platforms, was originally designed to alleviate overcrowding at the main underground entrances at Waterloo Station. SAS International's vaulted metal ceiling and stainless steel wall cladding, impact resistant and finished with anti-graffiti paint, were specified.

The SAS Project Management team worked closely with BPR architects on the design, manufacture and installation of the architectural metalwork for this phase.

The balcony was the most recent of the three phases, which involved SAS International once again collaborating with a range of designers and project teams. It took 15 months and was completed on time and on budget.

Working with BAM Construction, SAS Project Management designed and installed an innovative solution for the curved aluminium soffit cladding to the underside of the new Mezzanine level and escalators.

A key benefit of SAS International's involvement at design stage meant that ease of buildability in the construction

Continued overleaf...

‘The main thinking related to the contrast between the original Edwardian building and a modern but elegant structure, designed to appear as a lightweight structure on a colonnade of light columns’

David Packham,
project manager at BAM



Client: Network Rail

Main contractor: BAM

Demolition, groundworks and structural alterations:
FBS Construction

Structural steel:
Graham Wood

Soffit cladding, ceiling systems and column casing:
SAS International

Balustrades:
Mercia Architectural Metalwork

process and consideration of ongoing maintenance requirements from the outset were factored in.

The scheme reduced congestion on the concourse and improved access to and from Waterloo East, with the installation of escalators and the relocation of shops from the middle of the concourse to the balcony.

The 220m long steel-framed balcony is unmissable, with its curved aluminium soffit cladding under the new mezzanine level and escalators designed and supplied by SAS International.

Malcolm Stamper, SAS International's marketing manager, says: "A very modern aesthetic was chosen for the balcony which still manages to expose the older stone and brick vertical interior façade. By specifying metal cladding, with toughened glass for the balustrades, the BAM design team chose a durable and sympathetic material choice."

David Packham, project manager at BAM, says: "The balcony appears to float above the concourse and not impose on the existing structure. Care was taken at balcony level to maintain its stone work and brickwork elevations but being carefully modified to accept the new styling for glass and signage, while retaining its stone and brick features.

"Materials were largely chosen by considering the quality of finish, and durability for such a high usage environment. The stone and brick were carefully cleaned to ensure these features were appreciated at balcony level."

The appearance is in keeping with the original concept of high-quality finishes that can be readily maintained and be durable over a long period. Curved aluminium soffit cladding was installed to the underside of the new mezzanine level and escalators.

"The challenge was to achieve a robust and durable solution while answering aesthetic demands," adds Stamper.

"The main thinking related to the contrast between the original Edwardian building and a modern but elegant structure, designed to appear as a lightweight structure on a colonnade of light columns," says Packham.

The Waterloo hub is not only used by commuters but is a gateway to the cultural attractions of the South Bank and beyond, including the Royal Festival Hall, the National Theatre, Shakespeare's Globe and the Old Vic. Rail travellers are pleased to see Waterloo keeping pace with the attractive makeovers at King's Cross, St Pancras and other London mainline terminals.

Victorian shopping arcade transformation



A historic arcade in Leicester, which is one of the only examples of its kind in the UK, has reopened following a £3 million refit involving multiple glazing installations by GLASSOLUTIONS. The contracting and commercial glazing teams collaborated to deliver a huge array of glazing for the award-winning project, including a full length patent glazed rooflight, fire-rated doors, screens and shop fronts. The brief also included full-height structurally bolted entrance screens, automatic glazed door sets, balustrades and stunning glazed folding sliding doors featuring within shop fronts.

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Gerflor plays its part in family firm's superstore



Independent electrical goods retailer HBW Woolacotts specified international vinyl flooring specialist Gerflor's Creation Luxury Vinyl Tile & Plank (LVT) range for its new 18,000²ft store. The client chose four styles from the Creation range to define spaces,

without obvious walkways, which would showcase the goods in similar settings to customers' homes and create a cafe and cookery demonstration area. Usually specified for public and commercial areas needing a sophisticated look while coping with high footfall, Creation LVT range has 89 realistic wood and mineral finishes in an array of formats, grains and colours.

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Hemclad plays pivotal role in helping M&S



Hemclad prefabricated wall panel cassettes developed by the Lime Technology Group have played a significant part in helping Marks & Spencer's flagship Cheshire Oaks store smash its first year sustainability targets. Highlighted by the UK's innovation agency, the Technology Strategy Board, as a

'star project with benefits aplenty', the store has delivered far better environmental performance in its first year of operation than that predicted by its designers. The high levels of insulation and consistent thermal inertia that the Hemclad panels are proven to deliver have also been linked to the store excelling in the comfort stakes, through the existence of pleasant and consistent internal environment.

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Gerflor's winning solutions are ideal



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System 3 Keeps M&S Customers Safe

System 3 perimeter safety barriers have been installed by Berry Systems at the award winning Marks and Spencer car park, Cheshire Oaks. System 3 is a fully tested, column mounted safety barrier system that uses tensioned steel rods and infill mesh panels to provide the impact resistance to meet the demands of BS EN 1991 -1-1 2002 Annex B, the European Standard that has superseded BS 6399 Part 1 1996. With a zero footprint in the parking bay, System 3 allows architects to maximise the space available, while providing a flexible system that 'gives' on impact to minimise damage to vehicles and the barrier itself. In addition the low deflection figures means the barriers will not foul and damage other components of the car park such as cladding or, as at Cheshire Oaks, plant pods, vines and creepers. Berry Systems installed the barriers all round the perimeter of the upper deck and on the two way vehicle ramp. Specially curved sections were fabricated for the eastern corner of the deck where the car park is shaped to provide wider access to the ramp.

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Manchester set to append ahead on new national stadium



Steve Menary reports on plans to build the UK's first national speedway stadium and set a standard for design in a sport traditionally left at the back of the pack



For a sport that regularly attracts thousands of fans to meets every week, speedway has precious little history in terms of stadia and certainly no purpose-built grounds with any level of good quality design.

Speedway has a long history in this country and often attracted bumper crowds, but all too often these have been to grounds built for other sports. The Millennium Stadium in Cardiff, better known for rugby union, first staged a major speedway race in 2001 but the sport's association with major venues goes back much further.

The famous White City Stadium in West London that was built for the 1908 Olympic Games hosted the now defunct White City Rebels from 1976 to 1978. The Rebels folded due to poor crowds but another famous London stadium, Wembley, was attracting attendances of 80,000 for speedway meets after World War Two.

The period of 1946 to 1949 was a halcyon period for the sport and attendances have declined since. But speedway remains a well-watched staple of Sky Television and The Voice magazine estimates that more than 40,000 people a week still go to watch meets from Eastbourne to Manchester every week.

For all its enduring popularity, speedway has never had its own national stadium but that could all finally change if, as scheduled, work on the proposed new £10 million Belle Vue Sports Village finally gets underway this spring.

The project, which has been in the pipeline for a number of years, has been put together by Manchester City Council and will include a national home for not just speedway but also English basketball. And for AFL, the experienced sports architects on the project, the design commission brings a major challenge not just to create a home for this rootless sport, but to finally introduce some iconic architecture into a sport with stadia lacking any architectural flair.

Right from speedway's early days the sport was usually staged at existing greyhound stadiums, such as Haringey, New Cross and Wimbledon in London. Today, speedway and greyhound racing are frequently staged at the same grounds across the country from Poole to Swindon, but there is little design of note.

Over the years, speedway teams also shared a home with a number of football clubs from Chelsea's Stamford Bridge to the likes of the Shay in Halifax and the old Eastville Stadium, which housed Bristol Rovers Football Club and the Bulldogs speedway team.

While some of these football grounds can boast of famous

Continued overleaf...

'Speedway has never had its own national stadium but that could all finally change if, as scheduled, work on the proposed new £10 million Belle Vue Sports Village finally gets underway this spring'



'The overall speedway proposal is for a purpose-built 6,500 capacity speedway venue comprising a 2,500 seat grandstand with executive seats, and a standing terrace accommodating 4,000'



architects such as Archibald Leach, who produced a notable style and form in that game, speedway has no track record because there are so few speedway-only stadia.

Author Simon Inglis documented Leach's life in *Engineering Archie: Archibald Leitch – Football Ground Designer* and has studied the history of speedway stadia. He says: "Lea Bridge in east London was a speedway only stadium, but honestly, it was so basic that it can hardly be described as a designed venue. Like so many, it was really just a track with outbuildings.

"The only pre-war speedway-only stadiums I can think of that were designed specifically for the sport and that could be described as having some sort of master-plan with designed stands are Brandon Stadium in Coventry, built in 1928, and Owlerton, which is now greyhounds only and built in 1929."

West Ham's stadium was purpose built for both greyhounds and speedway from the beginning and Inglis has identified a total of 17 speedway tracks in London, but most are now memories. Hackney Wick closed in 1996 and speedway finished at Wimbledon in 2005, although the ground still stages greyhound. The rest are closed.

Inglis publishes the *Made in...* series of books documenting Britain's sporting venues but will not be putting one out on

speedway, adding: "We did consider a book on speedway and or greyhounds but the paucity of good design ruled it out."

That is what makes the challenge facing AFL in Manchester so great.

Manchester's speedway team is the Belle Vue Aces, whose home in 1929 was a development of an existing athletics and football ground. Today, the Aces share a stadium not only with greyhounds but also stock car racing. As a result, the Aces have to stage speedway on a Monday night as that is the only free slot and negotiations between the club and the council over a new home have been ongoing since 2006.

Building a speedway-only national stadium was clearly unrealistic and the Aces will be the regular tenants on the track. The overall speedway proposal is for a purpose-built 6,500 capacity speedway venue comprising a 2,500 seat grandstand with executive seats, and a standing terrace accommodating 4,000.

The track's facilities would also incorporate a workshop, 24 pits for the bikes, changing facilities, a function room capable of holding 250 people and including a bar, terrace, kitchens and a press room for 30 media representatives.

The design must include the potential to add temporary seating for larger events, so that Manchester can bid for major



international speedway events. The sport is massively popular in Eastern Europe, where major races can attract attendances of 80,000 and this has proved attractive for promoters.

In Britain, main events this year will be the 2014 British FIM Speedway Grand Prix to be staged on July 12 at the Millennium Stadium and the individual Monster Energy FIM Speedway World Cup on July 26, which King's Lynn has rights to host. The Aces and the city council want a ground capable of hosting this type of event and a design to reflect this.

The brief from the council is for a track that must be "the first of its kind in the country – able to host not only national race meets, but as one of the best tracks in Europe. The new stadium will give one of Manchester's most historic sporting teams the opportunity to compete at the highest standard, while opening the lucrative weekend race meets, strengthening the earning potential of the club."

The council want the stadium to set the standard for the British Elite League and envisage crowds of between 50,000 and 80,000 visiting the track each year. These will come not just through higher attendances from Aces' meets but new international events.

The British Speedway Promoters Association (BSPA) have agreed with the council and the Aces that the new ground

would be designated a national stadium and the sport's world governing body, the Fédération Internationale de Motocyclisme, have agreed a "willingness" to stage international events there.

Renowned sports architects Populous were initially brought on board and put together a basic design with an estimate that the speedway element would cost £4.5 million to build. The Aces are the only Elite League team in the North West but attendances for meets are between 1,000 and 1,100. The club envisage that these could grow to between 1,800 and 2,500 at a new ground, but even that would not cover the build cost. So the city council has agreed to fund the £4.5 million with a loan that will be repaid by the Aces though an annual rent as part of the club's 60-year lease agreement.

The entire proposal forms part of the council's Eastlands Community Plan and the speedway track will also host a new National Speedway Academy aimed at making Manchester a centre of excellence and also to encourage grass roots development of new local speedway talent.

Traditionally, speedway stadia have also often featured other sports in the space in the centre of the track but this has gradually died out. Bristol Rovers left Eastville in 1986 and a dozen years later the track was demolished, while the Poole Town were unceremoniously kicked out of the south coast resort's greyhound and speedway stadium two decades ago.

Since then, the track footprint has been expanded to such an extent that the prospect of Poole Town returning would be difficult, but AFL's design in Manchester must include a grass rugby league pitch, for use by St Peter's High School and the wider community.

AFL have been brought on board as the project architects, but with a planning application due to come before the local committee in the coming months, the practice are reluctant to discuss individual aspects of the design that may subsequently change.

However, a contractor has been brought on board with ISG, the company that built the velodrome for the 2012 Olympic Games in London, recruited by the council.

"Every milestone towards Belle Vue Sports Village is a step closer to realising the potential of this area," said councillor Nigel Murphy, the city council's executive member for planning and Regeneration, after ISG's appointment. "Of course there is still some way to go – planning and beyond – but we welcome the experience of ISG to deliver the development in the future."

AFL's designers are busy on the plans and the design proposals due to be unveiled any day, speedway fans will soon find out the exact details of what the sport's first proper, purpose-built home will look like. With so little track record, AFL's design can only be an improvement but the practice, the Aces and the council will surely all have higher aspirations.

'The entire proposal forms part of the council's Eastlands Community Plan and the speedway track will also host a new National Speedway Academy aimed at making Manchester a centre of excellence'



Project: National Speedway Stadium

Location: Belle Vue Sports Village, Greater Manchester

Cost: £4.5 million

Client: Manchester City Council

Architect: AFLS+P

Mechanical & electrical consultant: Clancy Consulting

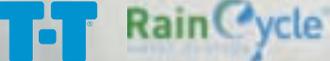
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ecobuild stand no N1120



Ancon, a leading manufacturer of stainless steel masonry support and restraint fixings, is to team-up with one of the country's largest brick manufacturers, Ibstock, to present a range of sustainable and low energy construction solutions at this year's Ecobuild exhibition. Due to be launched at the show is a new

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Designing for the future

A cleaner, greener and more sustainable built environment at Ecobuild 2014

Each year Ecobuild hosts the most comprehensive showcase of sustainable construction products in the world. As architects, structural engineers, contractors and developers continue to play a vital role in helping to build a more sustainable future, there has never been such an important time to get up to speed on the latest legislation, training and technologies.

Ecobuild (4 – 6 March) brings together the entire supply chain in order to realise the vision of delivering a more sustainable built environment. Returning to London's ExCeL for its 10th anniversary, this year's event will feature an unrivalled information programme, attracting over 600 speakers. At the heart of the programme is debate, learning and information exchange, led by internationally renowned academics, ministers, industry leaders and celebrity speakers.

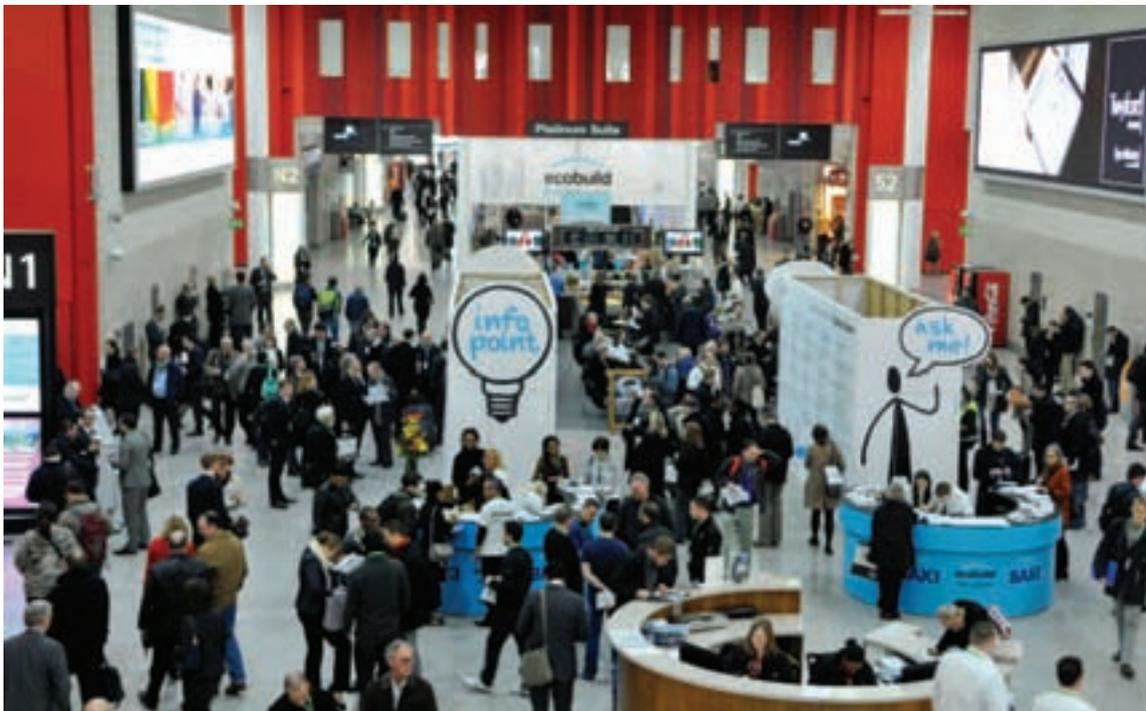
On the first day, *The Independent's* architecture critic will sit down with this year's RIBA Gold Medallist, Joseph

Rykwert, to get his answer to the question 'How can we think about the fabric of our cities when all decisions about them seem to be taken by speculators and developers?'

Later, the former RIBA president and current director of Brady Mallaieu, Angela Brady, will host a debate on what Britain has to offer China. A session will hear from representatives of Terry Farrell & Partners, Wilkinson Architects and the UKTI who will be using the SWOT matrix to evaluate the opportunities the Chinese market could provide.

Another session will see Minister Ed Vaizey and Sir Terry Farrell talk over the outcomes of The Farrell Review – looking into the role of design in creating better places for people to live, work and play in. The debate will be chaired by Peter Murray, Chairman of NLA and will focus on the ingredients needed for successful design.

The full conference programme will span the three days of the event and will also hear from former Mayor of London,



Look out for...



CANAL Architectural will be STEELing the show once again at Ecobuild, presenting a new bespoke range of architectural staircases and balustrade pieces that incorporate various materials, which have been designed from recently completed projects. Visit **Stand S657**.

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Dura Cladding is made of 87 per cent recycled materials and has become the first timber composite supplier to become FSC® 100 per cent certified, guaranteeing the use of FSC® certified forests in the production chain when specified. Visit Dura Composites on **Stand S821**.

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Hambleside Danelaw's Dryseal component based GRP roofing system can help save customers money under the Competent-Roofers scheme while taking advantage of Green Deal work. It's easy to fit and aesthetically attractive. Find out how at the NFRC's Roofing Pavilion **N440/41**.

enq.151

More reasons to visit Ecobuild 2014:

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- Keep up-to-date with the latest news, legislation and training
- Meet current and potential suppliers and ensure you're getting the best deal



To find out more about the event and to register for your free ticket visit www.ecobuild.co.uk

Ken Livingstone; Channel 4 presenter and founder of Hab Housing, Kevin McCloud; PRP chairman, Andy von Bradsky and many others.

For 2014 the conference arenas will be on the show floor and the overall Ecobuild experience will be easier to navigate than ever before, thanks to the introduction of three core areas to the event.

The Sustainable Design and Construction zone focuses on the topic that has been at the heart of Ecobuild since it launched a decade ago. Here, visitors can learn about the latest design ideas, future construction materials, lighting and technical solutions to sustainable construction challenges. New and existing innovations, such as the role of Building Information Modelling (BIM) will be a central feature of the 2014 show.

The Future Cities zone will incorporate a range of topics from biodiversity and greening cities to infrastructure, water and waste, technology and transport – all of which are crucial to creating a sustainable future for an ever changing global population.

The Energy zone addresses another hot topic for Ecobuild 2014, championing key energy issues and providing guidance and practical advice on policy and legislation. This area will include a range of features on renewable energy, resource management and energy efficiency.

In addition to the Ecobuild arenas, which house the conference programme, six new content zones will be introduced to the show floor. Building Performance & BIM, Refurbishment & Retrofit, Green Energy, Design, Water, Waste & Materials and Future Cities will each host a unique seminar programme and drop-in advice clinics delivered by industry leading organisations.

Visitors can see innovative solutions and get practical advice with dozens of inspiring and interactive attractions. The 2014 features include: Solar City, Practical Installer, Regeneration Film Festival, the Royal Docks Ideas Competition and the Biodiversity Pavilion. This year will also include the UK-GBC Village allowing visitors to trial Pinpoint, their online platform for sustainability tools, training and resources, as well as taking advantage of the exclusive membership offer available during Ecobuild.

More to look out for...

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The **EcoSink**, by Ecoservice, a compact in-sink food disposal device which, unlike traditional disposal units, grinds the waste rather than cutting or shredding it. The EcoSink uses less water and energy than other waste disposal units. Visit **Stand S1303**.



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The **Roofing Pavilion** is new to Ecobuild and is being hosted by the **NFRC**.

Joining them will be **CompetentRoofer**, the **NFRC** Scheme and 15 member manufacturers, who will not only be exhibiting their latest products but will also putting on a number of presentations. Visit **Stand N440 and N450**.



enq.154

Standard white **PVC** roof-line remains a favourite although architects are specifying more

imaginative colours and product combinations. **Swish** is renowned for its low maintenance and high performance products. The flexibility of the profiles means they can be used on contemporary and heritage developments. Visit **Stand N1110/11**.



enq.155

Ecobuild launch for Elta residential ventilation

ecobuild stand no N1945



Ecobuild 2014 will be the platform from which Elta Fans launches its brand new residential product range at stand N1945: a range of fans and whole house systems specifically developed to meet the ventilation needs of the residential buildings of today and tomorrow. The range features

options designed for the specific ventilation needs of bathrooms, toilets, shower rooms, kitchens and utility rooms, as well as MVHR, MEV and dMEV units for whole house systems. Drawing on the innovations introduced in the Elta Select range to meet the energy efficiency requirements of new European legislation, Elta has adopted some of those innovations in the Residential Ventilation range.

01384 275800 www.eltafans.com

enq.156

Flowcrete's GREEN Floorzone at Ecobuild

ecobuild stand no N340



A ground-breaking flooring system is set to take centre stage at the world's leading event for sustainable design and construction. Flowcrete UK's revolutionary GREEN Floorzone is one of the most energy-saving single-source solutions on the market and a

model of the package, featuring the substrate through to final floor finish, will be on show at Ecobuild 2014, at Flowcrete's stand N340. Ideal for new build and refurbishment projects, GREEN Floorzone is a single warranty floor build-up programme featuring a number of sustainable options including choices in resin floor finish and self-levelling screed.

01270 753000 www.flowcrete.co.uk

enq.157

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ecobuild
stand no 1303





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Ecobuild Stand 536

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CMJ Coloured Movement Joint



CMJ Standard Movement Joint

Coloured Movement Joints Ltd

Telephone: 01244 200700 | Email: info@colouredmovementjoints.co.uk
Units 1 | Dovedale Business Centre | Doreby Side Road | Ripponden | Leeds | Yorkshire | WF2 7LQ

enq.159



SureSet, the UK's specialist supplier of resin bound paving, has announced the launch of Fusion™ at the Architect@Work exhibition

Fusion™ draws together products from the company's existing Spectrum and Natural Aggregate ranges to provide a virtually limitless selection of colour combinations to choose from. Renowned for an extensive colour range you can achieve blends of vibrant reds and blues, pastel greens and purples and warm buffs and yellows. Fusion™ allows users to define their own perfect colour combination and has been developed to give architects, specifiers and designers even more freedom when experimenting and selecting their surfacing material.

Whether a particular blend is required to complement an existing structure or to contrast with a specific planting scheme, the Fusion™ range provides the ideal solution. Once a blend has been requested, SureSet's Technical Team takes care of the rest – producing the right combination of materials to suit both aesthetic and durability needs before providing samples to view.

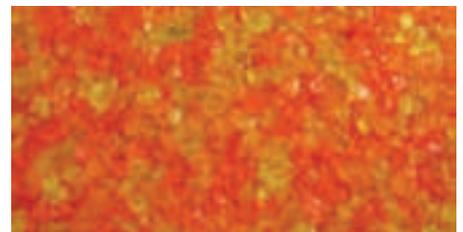
Fusion™ may be used internally or externally for whole landscape areas or for features within an

overall paving scheme; whatever the requirement, the product will deliver a stunning, durable and low-maintenance surface which is guaranteed to maintain its colour throughout its entire life using the highest quality resin that is UV stable.

As with all SureSet resin bound paving products, Fusion™ is completely permeable, allowing water to drain through the surface and so reducing surface run off and the risk of puddles forming.

Commenting on the launch, SureSet Marketing and International Sales Manager, Joni Carpenter said:

“Fusion™ has been created to allow designers and architects flexibility in design. The only limit is the designer's imagination; we really enjoyed being asked to create some exciting new bespoke mixes using our pick and mix display at this year's show. Thank you to all who attended and took part, your mixes will be posted to you.”



E: contact@sureset.co.uk
T: 0800 612 5637
www.suresetarchitecturalservices.co.uk

ecobuild
 stand number
S1175

enq.160

Dryseal - the ideal Green Deal solution

ecobuild stand no N440H



See the unique Dryseal component based GRP roofing system for flat and low pitched roofs in the NFRC's Roofing Pavilion (N440/41) at Ecobuild and find out how the UK manufactured **Hambleside Danelaw** product can help save customers money under the CompetentRoofer scheme whilst taking advantage of Green Deal

work. A long proven presence in domestic, commercial, public sector and heritage markets, the BBA approved system is ideal for meeting the ECO/CSCo requirements and carries a 20 year insured guarantee. Easy to fit, Dryseal is aesthetically attractive and perfect for detailing.

01327 701900 www.hambleside-danelaw.co.uk

enq.161

Ibstock Brick helps specifiers meet challenges

ecobuild stand no N1120



Ibstock Brick will be exhibiting a selection of its most innovative products at Ecobuild 2014, helping specifiers to meet both technical and aesthetic challenges while making the most of a renewed confidence in the construction industry through the use of real brick. On stand N1120 Ibstock will be displaying the diversity, breadth

and sustainability properties of its brick range, with its own expert design advisors on hand to handle queries and to showcase its leading service offer. Taking centre stage will be Ibstock's relaunched and expanded Linear long thin brick range, Ibstock-Kevington's innovative underslung brick-faced soffits solution and the ground-breaking BrickShield external wall insulation system.

enq.162

Epwin Group raises the standard at Ecobuild

ecobuild stand no N1110/1



Epwin Group understands the importance of partnerships, and the critical role they play in the future and long-term success of a business. So as the recovery builds momentum, it's time to re-think, re-evaluate and re-consider this vital element. Join the Epwin Group at Ecobuild 2014 (stand N1110/1) to hear why 'standard' just isn't good enough in

2014, and learn why its sector specific, niche and specialist products and services set it apart from the competition.

info@epwin.co.uk www.epwin.co.uk

enq.163

All round strength in energy efficient heating

ecobuild stand no N1211



Johnson & Starley's participation at Ecobuild 2014 will underline the company's commitment to the provision of highly energy efficient heating and ventilation solutions, meeting the needs of homeowners, specifiers and installers. Renowned for its market leading warm air heating technology, the company's recently launched range of WarmCair condensing warm air heaters offer high efficiency combined with low running costs, low NOx emissions and low operational noise levels. A full range of models are available including three models with integral Domestic Hot Water. Full details of all products will be available on Stand N1211 at Ecobuild 2014.

enq.164

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Colour to match the floor, range

CMJ Coloured Movement Joint

CMJ Standard Movement Joint

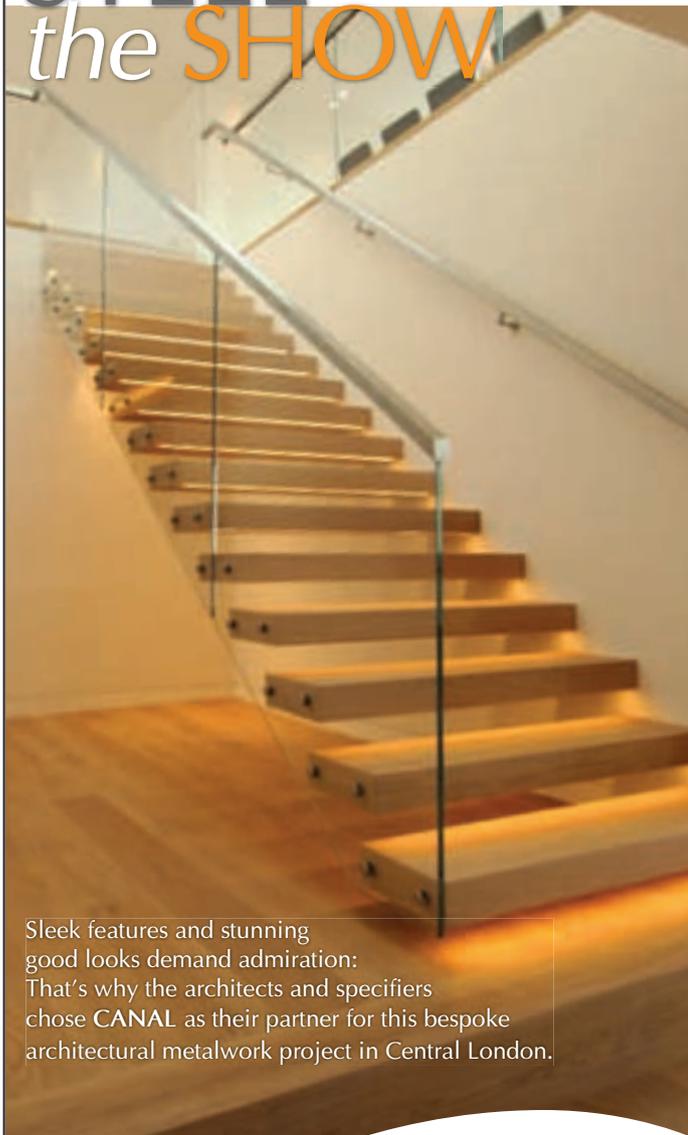
Coloured Movement Joints produce bespoke joints for Hard Flooring, Natural Stone and Tiles. We specialise in colour matching our joints to the ground or the floor finish creating a stylish designer look and a seamless finish.

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enq.165

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Visit CANAL Architectural at Ecobuild in March,
Stand S657



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enq.167



ecobuild stand no N1510/11

EnviroVent showcases new innovation

EnviroVent will be showcasing a new innovation, the energiSava 250, along with a wide range of energy efficient ventilation solutions which include Positive Input Ventilation (PIV) and other MVHR products at Ecobuild this year (stand N1510, Hall 11). The energiSava 250 is a whole house heat recovery system designed for smaller houses and apartments. The unit can be installed in the space of a standard size kitchen cupboard or fitted into the loft. It is lightweight and compact and can be vertically or horizontally mounted. It's also left and right hand reversible. Visitors to the stand can also see EnviroVent's Dynamic PIV, a whole house ventilation system specifically tested by BRE to comply and work in-conjunction with Jablite's Dynamic Cavity Insulation. The unit captures the heat energy that would normally escape from the dwelling and uses it to pre-warm the incoming air through the insulation layer, effectively turning the envelope of the building into a heat exchanger. Achieving a Specific Fan Power as low as 0.2 W/l/s along with significantly improved U-Values and Psi-Values, Dynamic PIV controls humidity levels and ensures good indoor air quality.

enq.166



ecobuild stand no N2100

Minus 7 – The true hybrid energy harvester

The Minus 7 hybrid energy harvesting system is an innovative renewable energy system that provides hot water and heating for homes using endothermic roof tile planks, a solar energy processor, a water to water heat pump, heat transfer units and a thermal store. The system is classified as a solar-assisted heat pump technology and the NCM (SAP) identifier for the product is Minus 7 SEP3G10 1/2/3. It is designed to keep a five bed house at a comfortable temperature of at least 21°C even in the worst case scenario of mid-winter. However, the system is capable of servicing up to three dwellings at once making it highly suitable for housing associations. Managing Director, Mark Wozencroft said: "This will be the third year for Minus 7 exhibiting at the Ecobuild show. Response has always been very positive. In recent years many visitors commented that it was the best roofing product that they had seen at the show and noted the very high standard of engineering, choice of components and finish." Several elements of the system will be available for visitors to inspect on stand N2100, including the solar energy processor, the heat transfer unit and the endothermic tile planks.

enq.168

01922 419405 www.minus7.co.uk

Kemper System showcases complete sustainable roofing solutions

ecobuild stand no S1722

Kemper System's stand (S1520/21) at this year's Ecobuild (4-6 March) continues to promote the market leading solvent-free, sustainable and odourless Kemperol 2K-PUR liquid waterproofing system and Stratex Warm Roof System.

Kemper System's innovative Kemperol 2K-PUR solvent-free and odourless system is the first solvent-free, wet-on-wet, cold liquid waterproofing system available on the UK market and remains the only product of its kind commercially available. The past year has seen continued growth in sales for the hard-wearing and durable waterproofing membrane, which bonds to almost any substrate to create a totally seamless, monolithic, U/V stable, elastomeric membrane. Based on an 80 per cent castor-oil formulation derived from sustainable sources, the system also incorporates a flexible,

non-woven reinforcement fleece, which is manufactured using 25 per cent recycled plastic bottle content. As the resin saturates the fleece in a single application process, the cured membrane cannot delaminate. The eco-friendly Kemperol 2K-PUR can help to prevent excessive waste from being sent to landfill during roof upgrades by avoiding the need to strip out the existing failed substrate.

Complementing the sustainability credentials of the Kemperol 2K-PUR system, Kemper System's Stratex Warm Roof System offers a completely integrated warm roof system that incorporates primers, vapour barrier, insulation and waterproofing with a range of optional surfacing.

Kemper System will also be showcasing the company's Kempergro Green Roof System, a three-section system comprising a reservoir attenuation composite, growing medium and vegetation.



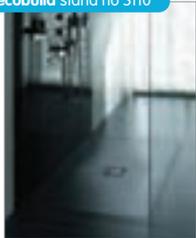
Visitors to Kemper System's stand will be able to see how each of the systems have been used in practice, including how the Kemperol 2K-PUR waterproofing membrane and Stratex Warm Roof System have been used together on various high profile projects. There will also be a number of display areas where visitors to the stand will be able to view samples of the cured product to experience first hand the flexibility and durability it offers.

enq.169

Contact Kemper System today on 01925 445532 or visit www.kempersystem.co.uk

Kaldewei – Ecobuild preview (stand S110)

ecobuild stand no S110



On stand S110 at Ecobuild, Kaldewei will exhibit a selection of latest bathing and shower solutions, all made from its unique 3.5mm steel enamel. Offering unrivalled sustainability, Kaldewei is the first bathroom manufacturer to hold ISO 14025 certification in recognition of the eco properties of this 100 per cent recyclable material and its green manufacturing processes. Example eco models of baths with reduced water capacity will be on display along with level-access shower products, all of which help specifiers conform to current building regulations, while still providing superb levels of design and bathing comfort.

0800 840 9770 www.kaldewei.co.uk

enq.170

MGCL's revolutionary new material at Ecobuild

ecobuild stand no S1366/67



The Marble & Granite Centre Ltd (MGCL) will be showcasing its revolutionary new hard surface material Lapitec at Ecobuild from 4th - 6th March 2014. The team will be in the StoneZone, stand S1366/67 throughout the show. They will be meeting architects, builders and contractors to explain the benefit of using Lapitec as an innovative, sustainable sintered stone product in building and design projects. Stephen Pike, MGCL managing director commented: "Lapitec's numerous features and benefits make it an incredibly versatile product, being full bodied it is highly workable and application opportunities are endless, making it an architect or designer's dream."

01895 820883 www.themarbleandgranitecentre.co.uk

enq.171

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enq.172

RHI will drive heat pump interest at Ecobuild

ecobuild stand no N2210/11



Mitsubishi Electric is inviting anyone who wants to know more about the Renewable Heat Incentive (RHI) and understand the role heat pumps can play to visit stand N2210/11 at Ecobuild. The heat pump manufacturer will be promoting the advantages of the Ecodan range, whether for domestic or non-domestic situations, in both old and new-built properties and

staff will be available to explain what the scheme means to both domestic and non-domestic heat pump projects. Ecodan pumps qualify for the RHI scheme and are available in individual units from 4kW to multiple systems up to 688kW, with the ability to work in tandem with other heating technologies.

01707 282880 www.heating.mitsubishielectric.co.uk

enq.173

Polyseam to exhibit environment friendly Graft™

ecobuild stand no N520



Polyseam, a leading UK manufacturer of sealants and adhesives, will be exhibiting Graft, its own new range of sealants and adhesives at Ecobuild, March 4-6th 2014. The new Graft range bears the strap line 'Hardworking products for hard working people', and incorporates a range of adhesives, sealants and fillers to meet the demands of the end user and the widest range of tasks. Dave Oram, marketing at Polyseam said: "We

have made significant investment in the development of this range and are confident that the wider construction market will recognise both the quality and environmental credentials of the various products."

0208 596 5061 www.graft.co.uk

enq.175

Ritec's new 'One Stop Shop' at Ecobuild

ecobuild stand no S948



Ritec International, who have recently been awarded the title of 'US Product of the Year 2013' for its new ClearShield Eco-System™, will be exhibiting at Ecobuild in London in March. Ritec will be exhibiting on stand S948 and showcasing its innovative new 'One Stop Shop' service for the residential market and

launching its recruitment of applicators for the new initiative. This service will see trained Ritec applicators offering residential customers renovation, protection and maintenance of all or any of their glass, ceramic, metal or painted surfaces in and around the home.

020 8344 8210 www.ritec.co.uk

enq.174

Certified performance standards from Schöck

ecobuild stand no N820



The Schöck Isokorb range of thermal break elements guarantees fully certified performance standards. All products are BBA approved and LABC registered, with thermal performance verified by Oxford Brookes University. In addition, the advanced technology of the Schöck

iXT range offers such a high level of insulation that balcony design can be incorporated into even the most demanding Passivhaus projects. Members of the Schöck team look forward to meeting you and offering advice on any aspect of these innovative solutions. Schöck will be at Ecobuild at stand N820.

01865 290 890 www.schoeck.co.uk

enq.176

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ecobuild
stand number
S821

dura™
composites

enq.177

Klover to be displayed at Ecobuild

ecobuild stand no N1915



Klover offers one of the widest ranges of MCS accredited wood pellet stoves available in the UK. The combination of excellent build quality and stunning designs, aided by the generous RHI grants now on offer, have made Klover pellet stoves one of the fastest growing renewable heating products on the market today. Klover will be exhibiting at Ecobuild on stand N1915.

enq.178

Ecobuild showcase for Smart

ecobuild stand no N110/211



Once again, commercial systems specialist **Smart Architectural Aluminium** will have a dominant presence at Ecobuild, with the company showcasing a number of new and existing products at the exhibition, as well as presenting its sustainability credentials. Featuring prominently will be the recently

launched Alitherm Heritage range of windows and doors, the display including a new pivot window, which has been designed to fit into very traditional openings such as stone mullions. Also on display will be products from the Alitherm 700 range, with both parallel opening and top-swing reversible windows installed.

01934 876 100 www.smartsystems.co.uk

enq.179

Ultrascape exhibiting at Ecobuild

ecobuild stand no N502



Ecobuild celebrates its 10th anniversary this year with several exciting new plans, featuring mortar paving specialist **Ultrascape** for the first time. Ultrascape will showcase its BS 7533 mortar paving system. This includes its ECO products as well as the upcoming permeable paving system. This new system is a paving innovation that contains recycled glass; all will

be showing on stand N502 within the Sustainable Design and Construction section. You will also be able to find out more about the brand's commitment to reducing its environmental impact. Its latest efforts have meant the successful implementation of zero waste to landfill from January 2014.

enq.180

Vectaire WHHR at Ecobuild

ecobuild stand no N2313



Vectaire's low energy, high performance Whole House Heat Recovery units which reduce energy consumption and cost will be displayed on stand N2313 at Ecobuild. They have EC motors with multiple choice of trickle speed providing low level, continuous ventilation. For in-line installation and recovering up to 92 per cent of heat are the "WHHR 100/90DC-Plus" and the WHHR

Mini DC" (specifically for one or two bedroom apartments, hotel rooms or student accommodation). The WHHRs "Midi" and "Maxi" are installed vertically into lofts or cupboards and recover up to 94 per cent of heat. All have low SFPs and sophisticated control options.

01494 522333 www.vectaire.co.uk

enq.200

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Image courtesy of Concept Roofing & Cladding Ltd

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newsletter

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www.adfonline.eu – register now

New window achieves Passivhaus standard

ecobuild stand no S741



Uniform Architectural Ltd has launched uni_one[®] Termoscudo, its most energy efficient window system so far. Termoscudo benefits from sleek aesthetic design details as part of the uni_one range with additional technology that greatly improves its thermal insulation capabilities to certify it to Passivhaus standards by achieving a heat loss 'U' value of 0.79 W/m²K. The advanced engineering design also improves acoustic insulation giving the window system a value of up to 43 rw (dB) providing increased comfort for the occupants. The new uni_one Termoscudo window system along with the rest of the uni_one range is featured in Uniform Architectural's new brochure *uni_one, The Contemporary Window*, which is available on request.

enq.202

Viessmann to showcase at Ecobuild 2014

ecobuild stand no N1820/21



At Ecobuild 2014, international heating systems manufacturer, Viessmann will unveil the first mass produced, commercially available, domestic fuel cell in Europe. Viessmann and Panasonic have jointly developed the Vitovalor 300-P polymer electrolyte fuel cell based micro combined heat and power system (mCHP), which goes on sale in Germany this April. By 2020, Panasonic and Viessmann expect a five-digit number of systems to be installed in Europe. The fuel cell system, comprising a fuel cell unit, peak load boiler and hot water tank, reduces CO² emissions by 50 per cent compared to the separate generation of heat and power.

01952 675000 www.viessmann.co.uk

enq.203

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enq.204

adf

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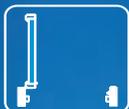
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enq.302

Glazpart BBA certified range of trickle vents

Banbury-based Glazpart is a specialist injection moulding company with extensive experience in the fenestration industry, employing 80 staff at its ISO 9001:2008 certified site, producing millions of mouldings each month.

Glazpart Ltd is pleased to confirm that its extensive range of trickle vents for the provision of background ventilation in buildings and to meet the requirements for approved document F1 are currently the only range to be third party certified by the BBA. The certification covers three main trickle vent product ranges in standard colour options: the Slim line (clip fix), Standard (screw fix) and Modular trickle vent product ranges.

Many design specifications for the supply of windows fitted with trickle vents requires a third party certification



such as one from the BBA who are the most widely recognised body in the UK construction market. This certification is particularly relevant for new build contracts where trickle vents are required by building regulations and NHBC standards.

The company's new trickle ventilation catalogue also provides details of the extensive range of over 3,500 colour

options, whether a moulded colour, vacuum foiled, printed wood grain or paint sprayed tricklevent. Also covered is Glazpart's extensive packaging options such as colour combinations e.g. white internal vents with a colour matched external canopy.

According to Dean Bradley, sales and marketing manager: "Glazpart is now unique in the UK as the only manufacturer of trickle ventilators holding a third party certification with the BBA. This is a reflection of Glazpart's on-going commitment to delivering quality products in compliance to the Part F building regulations for building ventilation."

You can keep in touch through social media or you can add your details to our electronic mailing list to find out the latest developments in trickle ventilation at Glazpart as they happen.



Download as a PDF or view at www.glazpart.com/products/trickle-ventilation or view online as a flip file. Glazpart's new catalogue also provides detailed summaries of all its BBA certified products.



For more information visit www.glazpart.com or follow on Twitter @glazpart

enq.303

Contemporary TORMAX access at Durham Cathedral



As part of a multi-phase redevelopment at Durham Cathedral, TORMAX was specified by architectural glass specialists OAG and architects Purcell, to install two contemporary automatic glass swing doors to provide clear access to the new cathedral shop and restaurant. Helping maintain the heritage of these vaulted undercrofts, TORMAX used its concealed iMotion 1401 operators. Located within the floor space, the operators have almost no working parts to wear out, delivering enhanced reliability and life expectancy, coupled with reduced on-going maintenance. Working with construction and fit-out specialists Simpson York Ltd, an existing side door was also automated using iMotion 1401 operators, successfully minimising the impact on the architectural heritage of the external façade. Attracting over 600,000 visitors a year, Durham Cathedral is a busy attraction that has to meet the expectations of the modern tourist without denigrating such a valuable heritage site. Maintaining the visual impact of the stunning vaulted ceiling, visitors access the shop and restaurant through automatic full-glass swing doors, set into glass dividing walls. Visible door drives would potentially jar with the historic setting and this is where the iMotion 1401 comes into its own. The TORMAX iMotion 1401 underfloor operator has been installed in countless sites of important architectural heritage across the UK, including a Grade II listed building within the grounds of the University of Cambridge.

enq.304

RENOLIT EXOFOL PX – guaranteed longer term performance



White is the universal "goes with all" colour in many areas such as paints, cars and fashion, as well as being a long established standard colour for windows, roofline, soffits and garage doors. To support this RENOLIT have launched a number of popular white and cream colours in their new patented EXOFOL PX formulation. Un-laminated UPVC windows can look flat and have no surface structure; laminating the profiles with a high quality RENOLIT film adds value to the windows by improving their appearance. RENOLIT EXOFOL PX is a unique exterior film which lasts longer outdoors. The film features improved performance in all aspects of the product construction which results in a film which lasts longer and can withstand warmer climates. This new and patented type of exterior film, contains smart technology which enables the collection of whites and creams to be launched with an extended guarantee against colour fading of up to 12.5 years in UK and Ireland. The inclusion of SST (Solar Shield Technology) in the product reduces heat build-up which means that RENOLIT EXOFOL PX also offers significant advantages for darker greys and greens, traditional and modern premier woodgrain designs. In total a range of 25 classic popular and emerging premier woodgrain designs and solid colours are available in RENOLIT EXOFOL PX.

01670 718222 www.renolit.com/exterior

enq.305



The DUALWAY Anti Barricade door system from **Cooke Brothers** has generated a huge amount of interest from a number of industry leading names operating in the specialist custodial, secure units, mental health and hospital healthcare sectors. The system provides unrestricted and immediate access into a room in a situation where a patient has barricaded themselves in. The inner frame can be quickly released enabling the complete doorset to swing outwards.

enq.301



There's no denying that folding and sliding doors will be closed more than they're open so it's important to consider you'll be looking through, says **Altitude Aluminium**. If you have a pleasant patio area with a secluded garden, folding doors are perfect. However, if you have a view spanning far and wide, Altitude Aluminium finds sliders are often a better option. Whatever you're hoping to achieve, the company's experts are on hand to help you make the right choice.

enq.302



Architect Broadway Malyan selected concealed **TECTUS** hinges from **SIMONSWERK** for 'The Tower' – a prestigious new 180m tall, 50 storey project in London's Vauxhall. The luxurious interiors feature heavy American Walnut doors requiring high quality hinges to achieve an uninterrupted flush finish timber face. **SIMONSWERK TECTUS** heavy duty fully concealed hinges were considered the ideal choice for all of the internal doors.

enq.308



Quayside Conservatories is currently in discussions with Leitz Tooling regarding installing its new 'ThermoTech Window System' to manufacture 'A' rated thermal storm-proof, flush casement and traditional wood windows.

The system is complete, compliant and scalable for the manufacture of high quality 'A' rated thermal windows which reduce waste and sanding as well as increasing performance and finish.

enq.310

New addition to Schueco UK range



Schueco UK has just launched AWS 114, a façade insert window that can be fitted into all types of Schueco façades including stick, unitised and add-on constructions. Its design benefits include large vent sizes, high levels of thermal insulation and the option of 'TipTronic' automatic actuator operation. The AWS 114 window is available in three formats: fully framed,

structurally glazed and structurally glazed with a glass retention frame. All can be specified with standard insulation or super insulation (.SI). Typical U_f values range from 1.8 Wm^2K (AWS 114, AWS 114 SG) to 1.3 Wm^2K (AWS 114.SI), with sound insulation up to 47 dB Rw using double-glazed units.

01908 282111 www.schueco.co.uk

enq.306

Gilgen, the automatic door choice at hospital



Gilgen automatic doors and industrial doors have been chosen by Rotherham Hospital, part of Rotherham NHS Foundation Trust to improve site accessibility and efficiency. The doors installed by Gilgen Door Systems include; FFM folding automatic doors which improve pedestrian access and comfort; Rolegard® roller shutters, Delta® folding shutters and Kwikroll® high speed doors to storage areas for improved

efficiency and security. The UK manufacturer supplies a complete range of automated door systems ideal for healthcare environments.

0800 316 6994 www.gilgendoorssystem.co.uk

enq.307



Award winning **TECTUS**

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enq.308

AV Composites unveils 100% recycled conservatory panels at Ecobuild

AV Composites has developed aluminium panels for conservatory roofs that provide better insulation than panels made of either alveolar polycarbonate or double-glazed glass. The AV Composites panels are 100 per cent recycled (and recyclable) thanks to the fact that the insulating foam is made out of recycled plastic bottles. The panels can also be coated in a range of coloured insulating paints that match the frame's colour. AV Composites will showcase its innovative solutions at Ecobuild.

The company is offering new panels for aluminium conservatory roofs in order to make the conservatory a real living space in winter and summer alike. AV Composites provides these

panels as a substitute for traditional materials, such as polycarbonate or glass, because aluminium provides an economical and eco-friendly solution. The advantages of aluminium for the conservatory-roofing sector include the fact that this material does not rust, can be cut easily, is light, and has a life span 1,000 times longer than that of polycarbonate.

AV Composites produces insulating products, for both housing and public buildings, in accordance with new European regulations for the environment and sustainable development. These regulations include clauses concerning the greenhouse effect, in line with targets for the reduction in CO₂ emissions.



For further information about AV Composites, go to www.avcomposites.com

enq.309



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enq.310



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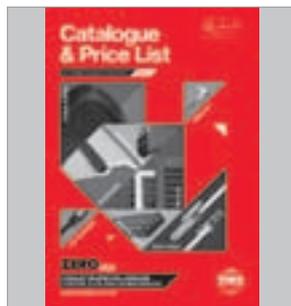
The Flyscreen Company Ltd are nationwide suppliers of PVC coated fiberglass Insect Mesh. Our Mesh is lightweight and easy to use, making it ideal for keeping insects out of spaces between external cladding and the main building structure and from soffits and loft spaces; anywhere that requires a free flow of air. The Flyscreen Company stocks bulk mesh sold by the metre or complete rolls, as well as a range of 45 metre rolls in widths from 50mm to 300mm in both black and grey.

enq.328



Urban Front has recently launched its new Passive house Certified doors, E98 Passive. These doors are available in most of the Urban Front popular door designs and in all of its hardwoods including Iroko, European Oak, American Black Walnut, Fumed Oak and Wenge. The doors are made with triple rebates, steel reinforcement, high insulation values and various bespoke sizing. For more information please call the Urban Front office.

enq.311



Zero Seal Systems sells everything except the door. Not just door seals to seal it, but hinges to hang it, stays to limit it, bolts to bolt it, intumescent to fireproof it, panic bolts to exit it, louvres to ventilate it, windows, vision frames and porthole windows to let light through it, closers and floor-springs to close it and door handles to operate it. For further details or to request a copy of its 204 page catalogue, visit Zero Seal Systems' website.

enq.318



Holdsworth Windows is a family run business specialising in the manufacture of bespoke steel windows, leaded lights and fittings. Established for over 45 years, it has designed, fabricated and installed windows for a wide range of buildings. Offering a complete window fitting service, conservation and recycling is an integral part of its work. Holdsworth can replace small cottage windows or tackle large-scale restorations – no job is too large or small.

enq.317

The VEKA UK Group returns to Fensterbau



The VEKA UK Group is proud to be exhibiting at the world-renowned Fensterbau exhibition for the third consecutive time. The industry-leading systems supplier will be flying the flag for British manufacturing and high quality UK products at the

Nuremberg-based show. Visitors can expect to see a host of products from brands within The VEKA UK Group, including the chance to get a 'sneak peek' at products which are yet to be unveiled to the industry. Sales and Marketing Director Colin Torley explains: "Fensterbau is a superb platform for our products and is one of the premier events for our industry." Fensterbau will be opening its doors from 26-29 March. The VEKA UK Group can be found in Hall 6, stand 6-341.

01282 716611 www.vekauk.com

enq.312

Timber door canopies by George Woods



George Woods UK manufacture a large range of door canopies, all hand made in timber from sustainable forestry. The company always holds a large stock of its standard size canopies, which enables it to offer a next day delivery service. A bespoke design service is provided for both timber door canopies and barge boards, which can be crafted from your own design. Beautifully crafted porch canopies are available in soft wood and include an extensive range of barge boards (fascia boards), all of which are manufactured on site by hand in the company's workshop. Having a canopy prolongs the life of your front door and extends the time between maintenance and adds value and a greater visual appeal to your home. The company's products are all FSC accredited.

enq.313

Getting to grips with door hardware



The Guild of Architectural Ironmongers (GAI) has introduced an innovative new development in its respected education portfolio: the *Foundation Module in Hardware*. The new GAI Foundation Module, with online learning and examination so it can be completed at any pace, is aimed at those who do not deal with

hardware all day, every day in their line of work but do require a working knowledge of the subject – so it is perfect for builders merchants, locksmiths, office support staff at architectural ironmongers or anyone who simply wants to gain a positive but basic knowledge about door hardware.

enq.314

New standards in doorset finishes



Architects and specifiers can now access the best in doorset quality, thanks to **Aspex Doorsets** securing the UK distribution rights for Svedex, a European manufacturer specialising in pre-finished interior doorsets for apartments and residential developments. Svedex doors feature a trademark lacquering process known as 'Superlak', originally developed by Ford and BASF for use in the motor industry. The process uses electrostatic charging to coat the surface and instant drying to achieve a consistently blemish free white lacquer finish. The doors can then be installed into the finished wall, with a fit time of under 30 minutes.

0116 278 3506 www.aspex-uk.co.uk

enq.315

New open-corner sliding patio door from Reynaers at Home lets the outside in

Creating a world of design possibilities, the **Reynaers at Home CP130** is a premium insulated sliding patio door system combining high weather performance with enhanced security and great aesthetics.

One of the features that sets this sliding door system ahead of the rest is a clever open-corner option where two sliding units meet at a corner. When closed, the double-weather gaskets protect against the elements.

The system is designed with ease of use in mind and the two doors glide apart to open up the whole corner with no fixed post to get in the way or obstruct the view. The result is a stunning feature where the ceiling appears to defy gravity, floating above a truly panoramic opening to the garden.

Available in slide or lift-and-slide variants, the CP130 sliding door system not only glides

smoothly, it also has a slim-line mid-section interlock to maximise the glass area. Additionally it can be specified with the Reynaers at Home integrated ventilation system Ventalis. The CP130 door can be opened just a few centimetres for a little fresh air, wider to allow homeowners to slip out into their garden, or opened all the way to really let the outside in. This versatile door creates an extra feeling of space and generates more natural light within the home.

This sliding patio door system has a maximum vent weight of 300kg and a maximum height of 2.7m, making it an ideal door for an extension or self-build project to create maximum visual impact and high-specification design.

Reynaers at Home is dedicated to offering the very best architectural glazing products and service to the discerning householder.



For more information visit ocadf.reynaersathome.co.uk, email homeuk@reynaers.com or call 0121 421 9707

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enq.319

Hunter Douglas in redevelopment scheme



50 new buildings, 2,000 new homes, 20 new streets and 10 new public squares spread across 67 acres and providing living and working space for 45,000 people make up the King's Cross regeneration programme in London. **Hunter Douglas** has taken centre stage in providing eye-catching and innovative, sliding, louvered shutter systems for the ArtHouse apartment complex.

A total of 435 sliding shutters with manual and motorised systems were installed, along with soffits with linear ceilings and bespoke aluminium fin centres. The project also presented particular design and installation challenges, such as the double height shutters of over six metres for the ArtHouse's duplex apartments.

01604 766251 www.hunterdouglas.co.uk

enq.320

Trent Valley promotes the benefits of Assure



Nottinghamshire-based installer and **Network VEKA** member, Trent Valley Window & Door Company Ltd joined the Assure Competent Person Scheme last year. Group Managing Director, Gary McCartan explains he has found that Assure offers many benefits above and beyond other

similar schemes: "While we were somewhat reluctant to join Assure at first, we have found the specific benefits it offers both us and our customers are hard to beat. As installers, Assure offers us training that we wouldn't get with other schemes. We've definitely found Assure to be cost-effective route to compliance."

01282 473170 www.networkveka.co.uk

enq.321

Victorian sashes enjoy some TLC



The striking bay window of a Victorian residence in Harrogate has been treated to some tender loving care by timber sash window specialists **Ventrolla**, restoring its dilapidated appearance back to its original beauty. The window was carefully removed from its original frame and the decaying timber spliced out to expose the sound timber beneath. Slim double glazed units were hand-crafted to replace the original sliding sashes, using traditional methods of carpentry to retain the period features. The Ventrolla Perimeter Sealing System was installed into the sashes to not only draught-proof the window but also reduce external noise and heat loss, lowering heating bills.

0800 0277 454 www.ventrolla.co.uk

enq.322

greenteQ pulling power from VBH

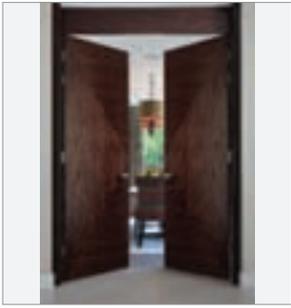


Hardware distributor **VBH** has added stainless steel pull handles to the greenteQ hardware range. The series was developed by VBH in Germany, where doors are commonly fitted with key operated (wind-up) locks and pull handles have long been used in place of a lever handle set. The range consists of nine basic designs, many of which are available with options of 90° or 45° projection, and

with standard or extended legs. All greenteQ pull handles are manufactured from hard wearing 1.4301 austenitic stainless steel (grade 304-A2), which provides good resistance to weather- and pollution-associated corrosion.

01634 263 263 www.vbhgb.com

enq.323



Todd Doors, a leading timber door and ironmongery merchant, has supplied bespoke oversized internal Wenge doors throughout Stanborough Construction's £3.2 million luxury Poole development, which received the Gold Award for Best Luxury House at the recent 2013 What House Awards. These stunning doors were manufactured to a bespoke design and are a prominent feature of the cutting-edge interior design of the development.

enq.326



Bauporte provides bespoke entrance solutions based on individual requirements and is uniquely placed to deal with the special architectural challenges that entrances pose.

Creating an entrance that reflects the personality of the building is a skill that requires understanding, flexibility of approach and ingenuity. The philosophy of 'yes, we can' sets the company apart in an industry that generally offers standard products.

enq.319



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 includes top turn, fully reversible windows; side hung, outward opening windows and french doors; inward opening windows and French doors, and sliding doors.

enq.325



Trademith has become one of the first **Halo** customers to adopt and promote the new 'Variations' range of coloured foils from The VEKA UK Group.

'Variations' is an extended range of 18 coloured and woodgrain foils available on Halo's Rustique and System10 profile suites. Under the banner of 'United Colours of Trademith', Trademith has taken on the extended range of colours to offer customers even more specification options.

enq.329

Does size matter?



Creating more space in the home is high on the agenda as many of today's homes are smaller than they were 100 years ago. **PC Henderson's** solutions can increase interior floor space available by the use of sliding door gear systems which provide an easy access solution that is ver-

satile and silent in use. They can be used as room dividers to create a flexible living space without compromising on an open plan design, which helps create space and allow more light into the property by removing walls and opening up rooms. Sliding door gear systems can also be used for wardrobe and entrance doors, allowing even the 'box room' in the house to accommodate storage solutions.

0191 377 0701 www.pchenderson.co.uk

enq.324

adf

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

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website



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2014 brings fresh blood to kbb Birmingham

Taking place at the NEC Birmingham from 2 - 5 March 2014 will be kbb Birmingham, the UK's largest gathering of professionals from the kitchens, bathrooms and bedrooms sectors. With hundreds of the biggest names already confirmed to be exhibiting, this is a must-attend event for anyone in the industry.

A diverse collection of British and international brands will be exhibiting at the show – some of which are returning to kbb Birmingham, some of which will be making their debut – giving visitors plenty of choice and solutions to fit every budget.

On the kitchen side of things, award-winning appliance specialist Caple will be launching a selection of new, high performance appliances, details of which are closely under wraps until the start of the show.

For the first time in 10 years, kbb Birmingham is set to welcome bathroom giant Ideal Standard back to the exhibition. The brand have taken a 200 sq m stand where they will be showcasing brand new product ranges.

Another big addition to the 2014 edition of kbb Birmingham is British Ceramic Tile, who will be joining the line-up for the very first time in March, and promises to arrive in style.

German kitchen manufacturers Leicht are also new to kbb Birmingham for 2014, and will be using the event to give a host of new collections their UK launch. This year's kbb Birmingham will welcome a whole host of brand new names; plus plenty of familiar faces for the 2014 show.

In addition to a fantastic exhibiting line-up, visitors to kbb Birmingham 2014 will be treated to a series of insightful seminars from top industry experts, adding to an already packed line-up for the NEC show in January. Already confirmed to be imparting valuable pearls of wisdom at the show are Hannah Malein of Global Colour Research who will be speaking about key colour & material trends for Autumn/Winter 2014/15, Jane Blakeborough of bathroom marketing consultancy J.M.Blake who will be discussing bathroom trends, and John Lennon of PWS who will be giving a talk entitled How to maintain market share and grow your business as an independent specialist.



For more information and to register for your complimentary pass to kbb Birmingham, please visit www.kbb.co.uk

JIS Europe at KBB 2014

kbb stand no G84



JIS Europe will be displaying its extensive Sussex range of stainless steel heated towel rails at the KBB exhibition on stand number G84, together with new rails on show for the first time. All towel rails are produced to exacting standards and JIS Europe offers an extended range of sizes. The towel rails are manufactured in 100 per cent stainless steel and are available in brushed satin or polished finish making these

radiators durable and hygienic and they come with a 25 year guarantee. Stainless steel does not corrode, chip, flake or bubble. It is durable, easy to clean and totally hygienic and it retains a high quality appearance throughout a long life.

01444 831200 www.sussexrange.co.uk

enq.205

COMPAC at KBB, stand M116

kbb stand no M116



COMPAC manufacture technological quartz and marble worksurfaces utilising innovative engineered stone technology. At the KBB exhibition, the company will be presenting a selection of its beautiful quartz and marble worksurfaces including

the Nature and TREND ranges. The Nature range is the perfect synergy between beauty and technology and owes its exceptional qualities to the BIO resins used to create what is a truly unique, sustainable, environmentally friendly, yet high performance worksurface. TREND is an exciting quartz range of four cool grey colours that add magic and alchemy to create a unique and balanced collection, warm and friendly, where simplicity and purity are its hallmarks.

enq.207

Dallmer drainage products at KBB 2014

kbb stand no F80



Dallmer Ltd, now celebrating its centenary and still owned and run by the Dallmer family, will be showcasing several new products at the KBB exhibition at the NEC 2-5 March 2014. As acknowledged leaders in 'wet-room' drainage, Dallmer will be exhibiting the latest variations on CeraLine channels. Now available with 'Flex' and

'Pronto' connectors, these make quick, reliable installation even easier in solid, beam and block or timber floors. The Tisto brand is also extended, an even larger range used for complete security when waterproofing a level access shower.

01787 248244 www.dallmer.com

enq.206

Natural slate roof offers sanctuary to bats



An exclusive 4,000 square metre new build home located near Henley-in-Arden not only features an impressive natural slate roof, courtesy of SIGA slate from SIG Roofing, but also boasts a number of bat entry points that have been discreetly positioned at the roof line to offer a secure habitat for this protected

species. Located on the slate roof of this Georgian style house, as well as the garage and outbuildings, a total of five bat entry points have been accommodated. Handmade from lead with a felt underlay, these pockets offer no disruption to the natural slate roofscape, which features SIGA 32 natural slate. The roof was designed specifically to make better use of the volume of the house.

enq.208









Introducing a new RIBA approved CPD called 'Introduction to the Liquid Roofing and Waterproofing Association: A Resource for Specifiers', exclusively available at www.ribacpd.com

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enq.210

BBC documentary puts Bison on the small screen

Bison Manufacturing's pre-cast concrete units have featured in a prime-time BBC documentary, *Hidden Histories: Britain's Oldest Businesses*, which aired on BBC4 on 29 January and featured the work of Bison customer R Durnell & Sons Ltd, a contractor with over 400 years of building experience.

During interviews with owner Alex Durnell, the programme showed a variety of past and present projects, including recent work at the Chantry Quarry luxury residential development in Guildford – featuring Hollowcore flooring units and precast staircases from Bison.

Specified throughout the estate's 15 high-end homes, 4,300m² of Bison's 200mm deep Hollowcore flooring units and 26m³ of precast staircases enhance the feeling of luxury in residential applications by providing a stable, sound deadening alternative to wooden construction.

Mike Nelson, sales and commercial manager at Bison Manufacturing, said: "R Durnell & Sons is a company that we have worked on numerous projects with over our 95-year history, so we were pleased to learn that their heritage and present success has been recognised within this BBC documentary. We were even more pleased to learn that our recent project in Guildford would feature too.

"While one might expect our precast products to feature prominently within multi-residential projects such as apartment buildings, a growing number of luxury developers are seeing the benefits associated with using our precast stairs and flooring units. This is due not only to the quality of the finished product, but also their ability to be installed on site much more quickly and cost effectively than some alternative solutions."

enq.211



To learn more about Bison and its range of leading precast concrete products, visit www.bison.co.uk

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enq.214

Fabric structures – an alternative world

Dale Robinson MSc, BEng (hons) structural engineer at Rubb Buildings Ltd looks at the benefits of the fabric structure in contemporary architecture

Tensioned fabric structures are becoming a well-developed technology. Architects have the ability to experiment and create innovative fabric solutions. They are aesthetically pleasing, sensitive to the environment, and can be very cost efficient.

Tension structures are becoming more commonly used in modern architecture due to the pleasing aesthetic properties they hold. It is believed they are efficient structures due to their weight/strength ratio. There are three main elements of a membrane structure; the fabric, which has to be constantly in tension in order to generate stiffness in the structure, flexible elements such as ties or cables, and the rigid support member's that are subject to compression and bending forces.

In architecture fabric structures tend to be associated with large scale projects such as the London Millennium Dome, the Water Cube in Beijing, the Kiev Stadium and Jeddah Haj terminal to name a few. However, there is another side to fabric



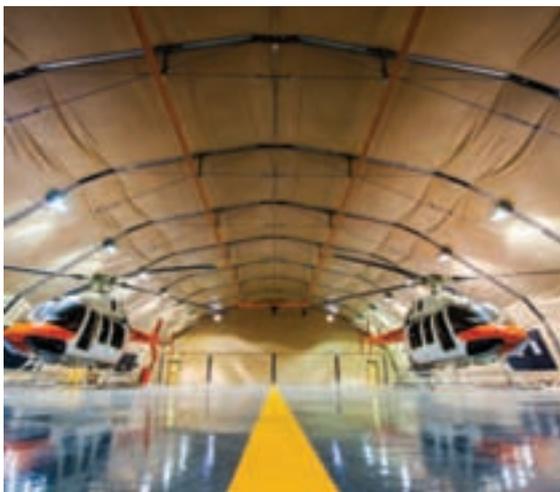
structures that the architecture world may be less aware of. Structures that bridge the gap between the iconic structures mentioned above and the typical cycle shelter or entrance canopy. The ordinary structures used on a daily basis in the industrial, sports and aeronautical industries. There have been numerous successful, non-iconic projects where fabric structures have been adopted as an alternative to more traditional materials for buildings such as warehouses, hangars or sports halls.

These types of structures, which are most commonly akin to portal frame structures, use the fabric membrane as a cladding rather than the structure itself. Therefore the natural stiffness that is generated by the curvature of the fabric is not required to stabilise the structure. This offers great advantages over traditional builds. The main advantage is having the potential for a faster installation which results in a more cost effective solution. Another advantage is the ability to specify a translucent roof which can allow natural daylight into building saving energy costs.

Given the flexibility of the fabric almost any shape can be accommodated and these structures are easily deconstructed which is predominantly why they excel in the temporary and relocatable markets. More recently there has been a large requirement for this type of structure to be designed and installed as a permanent solution. This tends to be in the sports industry mainly for schools, sports clubs and training facilities for professional sports teams. For a permanent solution additions can be made to the structure to include insulation, heating and

Continued on page 63...

'Given the flexibility of the fabric almost any shape can be accommodated and these structures are easily deconstructed which is predominantly why they excel in the temporary and relocatable markets'



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Roofing Contractors forum



The A. Proctor Group Ltd recently held a Roofing Contractors forum, bringing together those from throughout the UK who were keen to share experiences and knowledge. Education is key within the industry and an understanding of the current technologies and differences between membranes

is essential in making the right decision for your building. A highlight of the event was a visit to the production plant to see Roofshield, the premium air permeable pitched roofing membrane being manufactured. Roofshield has BBA certification and NHBC approval – it is a unique, three-layer, nonwoven, spunbonded, polypropylene breather membrane with a patented melt-blown core.

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enq.216

Levolux gets on top in New York



Topping Rose House hotel in New York now boasts a new 'studio' building and four luxury cottages, all equipped with an attractive Timber Fin solar shading and screening solution from **Levolux**. Levolux was invited to work closely with acclaimed architects from Roger Ferris + Partners, to provide solar control and privacy screening for the new buildings. Timber Fins were supplied with a custom 'rhomboid' shaped profile. The Fins, each measuring 150mm wide by 45mm thick, are arranged horizontally, incorporated into vertical and horizontal panels. The Western Red Cedar timber supplied by Levolux is FSC-certified, derived from sustainable sources.

enq.217



Clearview glass balconies take on film role

NEACO's Clearview glass Juliet balconies are renowned for providing an unobstructed outlook, but an office conversion project at Stirling House in Northampton required the opposite effect with a bespoke specification incorporating an orange privacy film on the toughened glass panels. The design by GSSArchitecture brings eye-catching colour to Clearview's minimalist aesthetic, producing an attractive contemporary façade for the three-storey former offices which have been transformed into a new 14,000 sq ft annex. Ben Asbury of GSSArchitecture said: "We chose NEACO's Juliet balconies largely due to their elegant, clean and contemporary finish with a high level of transparency. The bespoke fixings required for our installation have worked very neatly and we are pleased with the results." NEACO's national sales manager, Richard Richardson-Derry, said: "Our Clearview Juliet balconies have become a very popular alternative to heavily railed Juliet balconies and some projects feature the addition of bespoke etching or film on our glass panels – at Stirling House this particular film still allows excellent sunlight penetration."

enq.218

ventilation to meet the necessary environmental regulations and more importantly to comply with Part L of the Building Regulations. Other ancillaries can be incorporated such as gutters, windows and doors along with any other additional requirements to provide sufficient amenities to the end user.

A fabric clad building solution is one of the most versatile and innovative solutions to modern day building problems. Although these structures tend to take the geometric stance of an industrial shape structure the shaping possibilities are limitless. The specific market and cost restrictions generally dictate this type of structure albeit we have seen exceptions in sports training facilities where alternative shapes tend to be introduced.

If a project is operating on a tight timescale and requires a reliable, robust and cost effective solution, fabric covered buildings should be considered. They are designed suitably, as any other building, for the relevant environmental loading and to comply with Building Regulations. There are a variety of fabric colours available, that come with the necessary information on fire resistance and thermal properties to aid the designer. These structures can be partly clad in fabric along with alternative materials to form a unique hybrid solution which enables the architect to easily incorporate their own ethos into the final solution. Not forgetting this type of structure is sensitive to the environment and most fabric is recyclable, which in turn makes this option sustainably viable.

enq.219



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Extra BREEAM credits for Eurobond products

The responsible sourcing of building products is becoming more important to clients and designers and it is often difficult to choose between the 'green' claims of competing manufacturers. Eurobond Laminates believes that specifying the most sustainable products should be simpler and more transparent and it is for this reason that it has gained BES 6001 Responsible Sourcing of Construction Products for its entire range of stone wool cored internal and external wall and ceiling composite panels. It is the first UK composite panel manufacturer to achieve this prestigious standard that demonstrates a product has been produced in a way that has minimised its environmental impact and is sustainable. The importance of this certification is also reflected in BREEAM which now awards extra credits for products that have been assessed to BES 6001. The BES 6001 'Very Good' rating awarded to Eurobond Laminates results in its whole product range being classified Tier 3 according to Mat 03 in BREEAM 2011. The certificate may be viewed and downloaded at www.greenbooklive.com

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enq.223

ROCKPANEL breathes fresh life into a landmark project

A social housing refurbishment creating a high quality and low maintenance living environment for tenants and stimulating local regeneration

An ambitious project in the London Borough of Hammersmith & Fulham is breathing fresh life into a deprived neighbourhood. The £16 million project at the Edward Woods Estate in Hammersmith, West London has used the decorative ROCKPANEL façade cladding among other building materials to rejuvenate the tower blocks and the surrounding area and is as a result fostering greater pride and social cohesion within the community.

Creating a striking and well-insulated building

The façade system specified for the tower blocks was a combination of ROCKPANEL cladding and ROCKWOOL Rockshield. “With this refurbishment the objectives were to achieve a cost effective, high performing, safe and attractive construction which would benefit our tenants. With these four aims in mind, the right building materials were sourced to enable the objectives to be achieved.” Explains Melbourne Barrett, executive director of Housing and Regeneration London Borough of Hammersmith & Fulham Council.

The ROCKPANEL cladding applied in these tower blocks is fire-safe and rated with European Fire Classification B-s1, d0. Its recently introduced FS-Xtra boards offer even greater fire-safety which complies with European Fire classification A2-s1, d0. Especially in relation to the fire risk in high rise buildings such as tower blocks, fire-safe board material while also providing an opportunity to create unlimited cutting edge design is a must.

The Edward Woods Estate

This estate is the third most deprived neighbourhood in the borough, comprising 754 flats built in the 1960s – 528 in three 24-storey towers and 226 in four low-rise blocks. The Edward Woods Estate suffered from many of the social issues faced by many other inner city estates across the UK. The estate lacked communal facilities, had inadequate security, refuse and recycling facilities, and graffiti and vandalism were prevalent.

Additionally, the existing building was at the end of its lifecycle. The exposed concrete and brickwork panels required significant repair work. The flats were cold and plagued by condensation; as a consequence, residents faced excessively high fuel bills in part due to the building’s poor insulation and were at risk of fuel poverty.

Fast and efficient installation

The existing mosaic wall panels were overlaid externally with ROCKPANEL Rockclad and Woods boards to further



reduce heat loss and to give the tower blocks an attractive appearance. “Cladding a building of this size requires building materials with which you can work quickly and efficiently. ROCKPANEL is lightweight and easy to cut and shape so detailing can be completed quickly and easily, even when the building is in use by the tenants,” describes Irfan Dhoia, commercial manager at Breyer Group Ltd.

An attractive façade with a fresh appearance for decades to come

ROCKWOOL products have successfully improved both the life of the building and enhanced the residents’ comfort while at the same time helping reduce the buildings’ carbon footprint. “By cladding the tower blocks with ROCKPANEL we achieved an attractive façade which enhances the tenants’ and local community’s identification with the building. This building can now make a positive contribution to local regeneration activity,” says Ian Sarchett, managing director of ECD Architects.

A successful regeneration solution

By using ROCKWOOL products, the original Edward Woods Estate buildings were saved from demolition, and instead fully regenerated with a new and creative design; a long-lasting solution to benefit both tenants and the building’s owners. This was achieved at lower cost, with tenants experiencing minimum disruption to their lives and a maximised healthy indoor climate and benefits to the environment and the regeneration of the whole area.

enq_224

Project key data

- Location:**
West London, UK
- Type of project:**
Social housing refurbishment
- Value of the refurbishment:**
£16 million
- Volume:**
9,000m² ROCKPANEL Rockclad (Xtreme) / ROCKPANEL Woods
- Façade construction:**
Ventilated rainscreen cladding
- Fixing:**
Rivets into aluminium adjustable frame
- Products:**
- ROCKPANEL Rockclad (Xtreme) and ROCKPANEL Woods
 - ROCKWOOL RockShield
 - ROCKWOOL HP EnergySaver
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EQUITONE specified for eco pod



Fibre cement EQUITONE [tectiva] has been used to create a sustainable facade for a low energy, timber frame modular building installed at the Building Research Establishment (BRE) Innovation Park. Marley Eternit is working with Hoos to demonstrate how innovative approaches to sustainable design and construction can

improve the built environment. EQUITONE architectural fibre cement facade material was chosen because it can achieve an A+ rating as defined in the BRE's Green Guide to Specification. Although the Hoos Pod is a temporary structure, Marley Eternit facade solutions have an installed life expectancy of at least 50 years, making them ideal for all sustainable and affordable buildings. enq.225

Comar support 'Little Miracles' charity



Comar Architectural Aluminium, Page Group (Peterborough) Ltd and Vertikal were delighted to have been part of the re-building of The Spinney Centre, Peterborough on behalf of The 'Little Miracles' charity. They donated £10,000

to cover materials, design work, project management, fabrication and labour on-site to erect the striking feature rainbow wall which forms part of a life changing transformation to the centre for disabled children in Peterborough. An entirely new centre was built using a timber frame structure featuring full wheelchair access, a dedicated sensory room, space for counselling, an office and more. enq.227

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Bank is fully protected by Remmers



Remmers protective coating systems were chosen to meet the highly demanding specification and multiple facade finishes to a Grade 1 listed, four storey high building in London requiring extensive stone and concrete restoration. Repairs were carried out using Betofix R2, a high build, fast curing concrete repair mortar. Remmers Restoration Mortar was also selected for its ideal restoration and reprofiling properties for masonry as well as ornamental building

elements. Finally, Remmers Elastoflex Facade Paint was applied for its excellent anticarbonation characteristics, resistance to weathering and crack bridging ability. The works were completed within budget and ahead of the tight program. enq.226

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Trespa® panels specified for £32m health centre



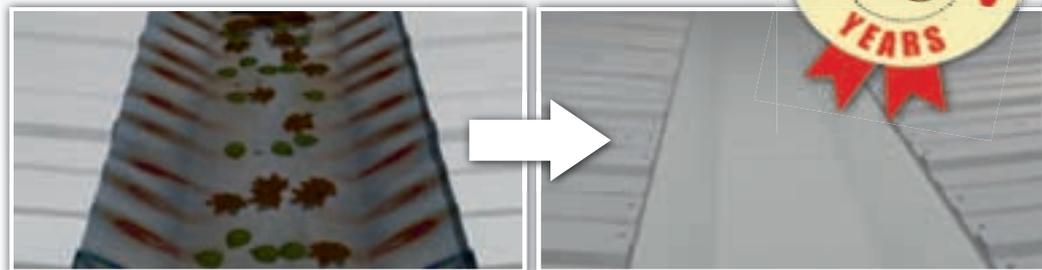
More than 3,000m² of Trespa Meteoron® facade panels were specified for the £32 million St Catherine's Health Centre in Birkenhead. Architects One Creative Environments Ltd used the hard-wearing product to colour code the building's five wings and to bring order to the facade, after the demands of the internal layout

meant windows were placed for functional rather than aesthetic reasons. The Trespa Meteoron range offers inspirational, eye-catching design solutions in low maintenance, robust panels made from high-pressure compact laminate, which are weather resistant, colour stable and underpinned by a 10 year guarantee. enq.228

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enq.234

High praise for Yeoman Rainguard systems



Damaged Victorian down pipes on the Leeds Methodist mission have been replaced with a Cast Iron rainwater system from **Yeoman Rainguard**. It supplied four replacement stacks to match the original design in 100mm Dia Cast Iron, pre-painted Black. Trevor Parker, Leeds Methodist Mission property and conference manager said: "We were delighted with the quality of products and prompt service we received from Rainguard. Its specialist skills were very impressive and we were kept advised of progress at every stage of the job."

enq.231

Kingspan for Channel 4 church restoration



Kingspan Insulation's Kooltherm and Therma products have been installed as part of the restoration of a dilapidated church, featured on Channel 4's *Restoration Man* series. St Peter's Church, originally built in 1874, was constructed on a steeply sloping pedestrian hill leading down to the main harbour in the picturesque Brixham fishing village. Kingspan Thermapitch TP10 was used for all of the church roofs. On the main church it was used on the outside of the roof structure, and on the 'rear' roof areas it was used within the

roof structure. All roofs had a layer of nilvent breathable membrane under the battens holding the Penrhyn and Ffestiniog reclaimed Welsh slates on the roof.

01544 387384 www.kingspaninsulation.co.uk

enq.232

Equitone opens up a bright future



An **EQUITONE** architectural fibre cement facade from **Marley Eternit** has been used to clad a new £17.6 million, RIBA award-winning academy in inner-city Birmingham. Fibre cement **EQUITONE** [textura] was specified by the architects in vivid colours to

emphasise the two axes within the school and the entrance area, which connect the two small "schools within a school" to the sixth form and specialist teaching areas, with **EQUITONE** [natura] used as a darker finish to contrast the bright colours of **EQUITONE** [textura]. Marley Eternit fibre cement architectural facades offer an installed life expectancy of at least 50 years and can achieve an A+ rating as defined in the BRE Green Guide to Specification.

enq.233

Diffused daylighting at St George's Park



St George's Park, the FA's National Football Centre and training ground in Burton-on-Trent is using **Structura Kalwall**® with aerogel insulation technology for the full-size indoor football pitch and separate sports hall. The cladding

admits museum-quality daylighting™, flooding the interior with natural diffused daylight while eliminating glare and shadows to create perfect playing conditions. The architects have also maximised the highest levels of insulation and energy efficiency, while still maximising daylight, by incorporating an aerogel within 950 sq m of the 2,780 sq m of Kalwall used on the site. This produces a remarkable insulating 'U' value of 0.28W/m²K, equivalent to a solid wall.

enq.235

New approved Document L technical update



H+H has produced a technical update for the new Approved Document Part L, which comes into effect on 6 April 2014. The document explains how Celcon Blocks can be used to meet the new regulations in different types of construction. The primary criteria that must

now be met is as follows: For new homes an approximate 6 per cent improvement to CO₂ targets on Part L 2010, with a focus on fabric performance; For non-domestic buildings there is an approximate 9 per cent improvement, consistent with fabric focused approach for homes; There is to be no uplift in fabric energy efficiency standards for work on existing homes or non-domestic buildings.

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enq.236

It's all part of the service



Kingspan Tarec[®] Industrial Insulation has launched the Pipeline Technical Advisory Service, providing customers with free expert guidance on everything from regulatory requirements and best practice to detailed project specific advice and solutions. Kingspan Tarec's technical support team can now be contacted via the free phone number and are able to advise on the specification, installation and maintenance of Kingspan Tarec products in any

building services/HVAC, refrigeration, process, low temperature or cryogenic application. Kingspan Tarec also offers a comprehensive range of product literature along with regular technical e-bulletins and free CPD presentations.

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enq.238

Crescent Academy rising with KoolDuct



An iconic new academy situated on the outskirts of Norwich city centre is the latest project to benefit from the lightweight design and fast-track installation provided by the Kingspan KoolDuct System. 2,574 m² of the Kingspan KoolDuct System was installed to and from air

handling units throughout the academy. The system comprises premium performance Kingspan KoolDuct panels which are the most thermally efficient insulation product commonly used for pre-insulated HVAC ductwork. With a thermal conductivity as low as 0.022 W/m.K, Kingspan KoolDuct panels can achieve air leakage rates far lower than traditional sheet metal ductwork.

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enq.237

Under floor air conditioning for refurbishment



AET Flexible Space have recently supplied an under floor air conditioning system to Reading Bridge House. The project was the second phase of major refurbishment and services upgrades which were designed to bring the building up to full British Council for Offices (BCO) air conditioning standards for prospective tenants.

The system provided by AET Flexible Space is an under floor air conditioning design based on AirFixture technology; 1,200 floor terminal boxes, comprising PMIT grilles with multi-directional airflow, and an upgraded Time Modulation controls system were supplied for the five floors of the second phase.

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enq.240

Pump docking stations boost performance



DAB Pumps has launched single and twin docking stations for its low water pressure pump, the e.sybox. Known respectively as the e.sydock and the e.sytwin, both docking accessories are designed to further enable a 'plumb and play' connection to the pump. The products are further innovations in design from DAB Pumps' e.sy range and feature a quick coupling base from which the pump can be simply connected or disconnected. The pump and docking stations are also extremely compact, saving on space too,

giving more flexibility when siting the units. The twin docks provide increased hydraulic performance in comparison with a single device and are linked via Bluetooth, saving space where otherwise cabling would have to be used. enq.241

Stonehenge opens visitor centre



With more than one million visitors a year, the majority of whom are from overseas, it seems somewhat surprising that the complete lack of visitor facilities at Stonehenge has only recently been redressed. Grundfos Pumps worked in conjunction with Skanska and supplied the full pump requirements. This included members of the ultra-energy efficient Grundfos MAGNA and ALPHA circulator pump families, TPE in-line centrifugal volute pumps that are suitable for a wide range of applications, a Hydro MPC-E booster set, with the solution being supported with Grundfos pressurisation units. Grundfos are delighted to be playing a supporting role.

enq.243

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enq.245

New internet air conditioning controller



Mitsubishi Electric has launched one of the most advanced energy monitoring centralised air conditioning controllers available, to provide building operators and estate managers with complete control over energy use from one location.

The EB-50 centralised controller offers web-based control and monitoring of up to 50 air conditioning systems and complete compatibility with the company's M Series, Mr Slim, City Multi and Lossnay ranges of equipment. The EB-50 is the next generation of centralised controllers incorporating easy weekly and annual scheduling and night setback, optimised start and load shedding and remote monitoring with M2M technology.

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enq.242

Green energy for Community Complex



A neighbourhood centre and new GP practice in Oldham have both chosen bio-fuel technology by Atlantic Boilers for their heating and hot water needs. Selected by consulting engineers, Blue Sky Inspired of Stockport, each building has a 90kW R Series Atlantic year-round condensing boiler having an efficiency of between 92 per cent GCV and 97 per cent

GCV – (98 per cent NCV and 103 per cent NCV). Burning B100 bio-liquid transformed from waste vegetable oil and rape seed oil and natural gas. The neighbourhood centre system was installed by Lewis Facilities of Chadderton, and the Surgery system by Bay Building Services of Morecambe. enq.244

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When is natural ventilation, really natural?

Over the last year we have seen a greater acceptance within the building industry for three defined methods of ventilating buildings, these being: mechanical ventilation, natural ventilation and hybrid ventilation (a combined mechanical and natural solution). In this article, Monodraught technical director Nick Hopper reviews them, and calls for greater clarity in defining them in order to ensure that clients and consultants understand exactly what is being specified.



Monodraught provides a complete design service which includes full dynamic simulation to show compliance against the relevant building standards

Within the latest guidance documents for the Priority School Building Programme (PSBP), section 2.8.21.3 references the use of natural, mechanical or hybrid ventilation systems as a provision for the PSBP Facilities Output Specification.

However, as a manufacturer of all three types of ventilation system and a company that has embedded the latest building simulation tools within its free design service, Monodraught has seen little clarity in the design criteria for hybrid solutions.

This lack of clarity therefore leaves individual consultants deciding: Is it natural? Is it mechanical? Instead of hiding from this discussion we should celebrate that there is an alternative and that it is acceptable to use a combination of equipment and strategies when it is suitable. However, technical information that details items such as the specific fan powers (SFP), control strategies and the acoustic rating of products are not grey areas and as a manufacturer Monodraught undertakes to make this data available as standard.

Mechanical ventilation

A mechanical (active) ventilation strategy relies upon fans to provide the driving forces for ventilation. Controlled levels of air temperature and/or diffusion of air is used to provide draught free ventilation. Optimisation of energy performance is achieved through a combination of energy efficient components and demand control strategies. SFP dictates the energy performance of the equipment and is based on the ventilation rates provided given the energy used. Pressure loss within designs can be overcome through greater fan energy.

To find out more go to Latest News at www.monodraught.com



Monodraught manufactures COOL-PHASE® low energy ventilation and natural cooling systems that use Phase Change Material coupled with an intelligently controlled air handling unit to provide demand control ventilation. This system maximises the effects of night time cooling and allows the use of intelligent thermal mass to be used throughout the occupied period.

Natural ventilation

A natural (passive) ventilation strategy relies upon a combination of thermal stack driven buoyancy and wind driven ventilation paths within a building. Control of openings can be from simple manual controls through to fully automatic intelligent façade or roof mounted systems that control openings in advance of building use.

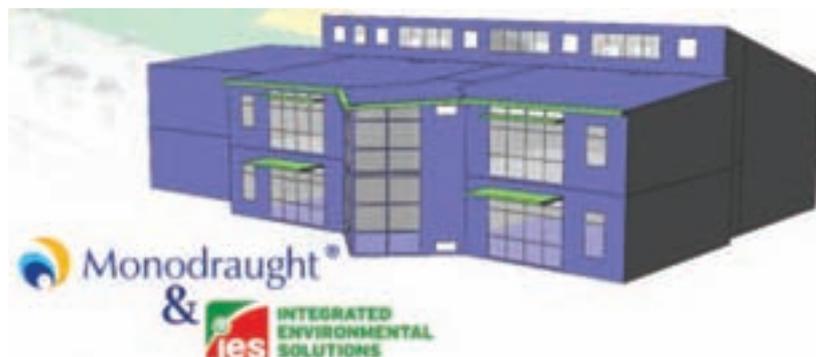
Monodraught manufactures WINDCATCHER® natural ventilation systems that utilise wind driven and thermal buoyancy forces to provide ventilation and heat gain dissipation. Integral control strategies maximise night time cooling and indoor air quality throughout the year.

Hybrid ventilation

A hybrid (mixed-mode) ventilation strategy incorporates natural ventilation openings within its design and uses fans to provide boosted levels of ventilation and/or seasonal ventilation strategies. During summer periods, fans can be used to provide supplementary ventilation in times of low wind speeds or high temperatures, to assist air movement. During winter fans can be used to push air around, mixing fresh air and re-circulated room air, to provide a method of air tempering.

Monodraught launched its SOLA-BOOST® version of the Windcatcher in 2005 winning the Interbuild New Product Award in 2006. The system incorporates a solar powered boost fan located at the base of the ventilation system. Perhaps this could be considered the very first mass manufactured Hybrid ventilation system!

enq.248



Ventilation specification at your fingertips



Greenwood Airvac, one of the UK's leading manufacturers of innovative ventilation solutions, has launched its first app to support architects, specifiers, and developers in the specification and installation of its products. Quick and easy to navigate, the new app brings together a complete library of Greenwood literature including product brochures, installation guides, Building Regulation documents and home-owner operation and maintenance handbooks. The brochure app puts the world of domestic ventilation at your fingertips, and with regular updates and additions it is an invaluable tool for anyone involved in the specification, design and installation of ventilation systems.

enq.249

Lunar – a new frontier in designer radiators



The softly curved profile of the Lunar radiator, from Hudson Reed, offers a stylish and sophisticated heating option for any room. Available in a choice of contemporary finishes, the Lunar radiators provide exceptional heat output of over 5,000 BTU/hr – perfect for those cold winter days. This compact, curvy design provides a touch of elegance and with a width of just 355mm it can be used in an alcove or between two windows. Manufactured from heavy duty aluminium, extrusion techniques enable us to produce the contemporary 'half-moon' shape and design – making them a simple yet effective heating solution for a living room, kitchen, bedroom or hallway.

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The Piazzetta Oslo fireplace with a 360° view



At last, a fireplace that really takes centre stage. With its 360° view the fire looks stunning from any angle. The gorgeous majolica cladding is available in a range of colours and is complemented by large, electrically operated ceramic glass panels. The Oslo is exclusively available through Robeys.

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enq.254



SMART new website for Greenwood Airvac

It's destination ventilation with the launch of Greenwood Airvac's new website: www.greenwood.co.uk. For everything 'residential ventilation', the site revolves around the company's core principle of ensuring Guaranteed Installed Performance is achieved – because what's the point if the ventilation is not going to do its job? With products, services, support and technical information just a click away, it showcases innovative and unique solutions from the only adaptive intermittent extract fan on the market, to the Passivhaus accredited heat recovery systems. Designed to be user-friendly and simple to navigate, the new site allows all users to quickly find the content they are looking for and to readily source information. "The site is a valuable resource for anyone involved in the specification and installation of residential ventilation products," commented Michelle Sharp, marketing communications manager at Greenwood. "Look out for our exciting new developments – videos for installers on-site, product information, and our brand new Greenwood blog which will be covering topics across the board. 'Don't get seduced by SFP' is the first one on the topic of Heat Recovery." So visit one of the web's top ventilation destinations today and register for regular updates and promotions.

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New lightweight heat recovery unit



Xpelair Ventilation Solutions has launched the Xcell Stratum low profile heat recovery unit, designed to be exceptionally installer friendly thanks to its integral fixing points and lightweight EPP design. The range is part of Xpelair's popular Xcell range and is available in

four models to suit a variety of applications and ventilation needs within new builds and refurbishments. Key technical aspects of the new range include long life ultra efficient EC motors and 88-90 per cent heat recovery, resulting in market leading efficiency. The units also include integrated programmable, multiple-speed control units for greater control over ventilation rates, along with built-in frost protection and 100 per cent summer bypass on some models.

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Crisp, clean stone inspired tiles



Solus Ceramics introduce the beautiful and inspiring Rawstone range, a porcelain stone-effect series of tiles that have been developed for both interior and exterior usage. The range, which is inspired by the wild and raw elegance of rural valleys, replicates the intricate and handsome tones and colours found in natural stone.

Less rustic than traditional stone inspired tiles, the Rawstone range provides a more delicate aesthetic that allows the user to create clean, crisp and modern lines with a natural twist. Rawstone is available in a number of contemporary Nordic inspired colours from breezy and cool greys, to bright and luxurious beiges.

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Intriguing use of HI-MACS® for Hebasca Hotel



The luxury Hebasca Hotel in Bude, Cornwall has had a total new fit out designed and fabricated by local specialists Nine Design. The owners of the Hebasca Group admired other internal work that Nine Design had completed in the vicinity including bars and thus commissioned the company to create an amazing and unique design that was to be part of a £1.6 million refurbishment involving the bar, bedrooms, restaurant, kitchen and reception area. The new cocktail bar was designed as a focal point and centrepiece of the public area, measuring 5m by 3m. HI-MACS from LG Hausys has been used for the front façade of the bar and also commissioned a stunning abstract mural at the back of the bar, which was designed and painted by local artist Patrick Hawkins. Included at the back of the bar is a plaque in HI-MACS, highlighting the corporate Hebasca logo fabricated from Black Granite HI-MACS with translucent Opal wording. Adam Hodgson of Nine Design says that HI-MACS was the perfect material to work with: "As a solid surface material it was ideal for the hard wearing, high traffic area like a public bar counter. It was very easy to fabricate, form and join and because it is impervious to moisture doesn't stain or mark. If by any chance it does get scratched or blemished in some way then a brief buff-up brings it back to new."

01892 704074 www.himacs.eu

enq.263

A bright solution from Encasement for Zeus nightclub



One of the country's hottest nightclubs is using unique LED backlit 'Circa' column casings from Encasement to not only conceal structural columns, but also help create a lively and stylish interior to the dance floor and bar areas. The interior of Zeus nightclub in Basingstoke uses Mediterranean colours, soft curves and more than 2,000 colour changing LED lights to create a sophisticated atmosphere. The 450mm diameter column casings used on the interior were manufactured from 12mm thick pre-formed plywood and incorporate a laminated finish to provide a durable and aesthetic solution. A series of opaque plastic strips were also incorporated into the design, which enables lighting within the column casing to shine through into the bar's interior. These unique casings were manufactured and installed by Encasement to the client's precise specifications and the installation of the internal lighting was also part of the project to ensure an eye-catching finish was achieved and the casings integrated with the nightclub's distinctive interior design. Encasement's Managing Director, Martin Taylor explained: "This is an exciting and creative use of column casings, where they're adding to the dynamic environment and style of a top nightclub. Our column casings are used in an incredibly diverse range of projects to provide a decorative and aesthetic finish, while also serving a practical purpose of concealing unsightly steel or concrete structural columns."

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

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

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

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Versatile style

Nicola Seymour of Marbrex explores the potential of decorative yet highly practical internal cladding systems over more traditional wall coverings – from reducing labour costs and timescales to ease of installation; long-term cleaning and maintenance

When it comes to creating a bathroom space consumers are naturally, and often unconsciously seduced by products and finishes that soothe the senses – from natural stone tiling to well-lit mirrors and atmospheric lighting; cloud bursting shower heads and deep, expansive baths.

On the other hand, public sector and private rental landlords are far more focused on the specification of appropriate and suitable products; working within the constraints of tighter budgets, planned maintenance schedules and resident responsibilities. Bathrooms and washrooms on a commercial scale are similarly affected yet many still require a hint of luxury; from multiple bathroom installations in a hotel development to washroom facilities in a leisure complex.

So how do architects and specifiers balance the demands of a wide and varied client base? The 'one size fits all' solution may well be debatable but there is one product that has the ability to create an idyllic individual bathroom while also fitting the bill for a social housing refurbishment; PVC-U panelling.

Versa-tile

It's sheer versatility that's causing bathroom stockists across the country to report a rise in popularity of this simple yet high quality product. PVC-U internal cladding can be fitted to walls and ceilings and is ideal for bathrooms, washrooms, kitchens, utilities and even play rooms – where a wipe clean surface is essential. It is also suitable for all wet areas as the panels are waterproof and provide some insulation to help reduce condensation.

Reduced installation times

Keeping a tight rein on budgets and expenditure is all part of efficient site and project management. As an alternative to tiles, paint and wallpaper, one of the many benefits of PVC-U interior cladding is the ease and speed with which it can be installed. Taking around half the time required for tiling, it can even be fitted over existing tiles. Consequently this has far reaching benefits, in that a quicker and easier installation process would inevitably reduce both labour costs and associated timescales.

From bathrooms...

Bathrooms are havens for moisture, steam, and condensation, all of which encourage damp, leading to the build-up of ugly patches of black mould. Not only is this unsightly but it can cause long-lasting and degenerative damage both on and below



the surface – be it floor, wall, ceiling or work surface, as well as having a detrimental effect on the health of the residents. Therefore choosing an appropriate wall covering or finish can be problematic – tiles remain the go-to product for the majority, while an influx of bathroom and moisture-resistant paints work elsewhere in the room.

However, one of the drawbacks of using tiles and grout in wet areas can be the build-up of water and moisture. To eradicate this issue interior cladding panels are available featuring an attractive tile effect. Giving the illusion of grout without

Continued on page 81...

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actually using it, the panels stay clean, fresh and free from mould.

In line with current trends, tile effect panels come in a variety of arrangements including the de rigueur off-set tile formation. This style is very effective across an expanse of wall, perfect for a wet room or washroom.

For properties that require a more traditional touch, decorative wall panels can be used to create a panelled wood effect. This can run from the floor to a height akin to a dado rail or for a more striking look, the panelling can run floor to ceiling.

...To kitchens...

Traditionally splashbacks have been created using tiles, dependent on the surface finish of the tile these can often require a vigorous clean to remove traces of grease and grime. Add to this the problematic issue of keeping the grout clean, and keeping on top of any staining or black mould that may develop in areas such as behind the sink, and it is easy to see why PVC-U wall panels are becoming an increasingly popular alternative. On a day-to-day basis, residents and homeowners need only wipe the panels down with a mild detergent, likewise, the installer or contractor at the point of handover.

...And ceilings

Hard to reach, and largely out of sight, ceilings are often the 'lazy' area when it comes to redecoration and up-keep.



Specifying PVC-U panels as a ceiling covering is an effective way of creating a sleek, uniform ceiling while also offering long-term benefits for the homeowner or landlord – saving on the associated cost and time of painting, decoration and general upkeep. Metallic effect trims and down lighters can also be added as part of the installation helping to achieve a more striking effect.

So whether it's a social housing refurbishment contract or a one-off private residential scheme, stop and consider PVC internal cladding, and maximise the potential of this truly versatile product.

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'Specifying PVC-U panels as a ceiling covering is an effective way of creating a sleek, uniform ceiling while also offering long-term benefits for the homeowner or landlord'

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Rada ticks refurbishment needs of one of the UK's oldest universities



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Rada's commercial showering and wash-room controls feature in an ambitious refurbishment project at the University of Aberdeen.

The Rada 215-T3 BC thermostatic shower valves (pictured left) and complementing BSR-S/300 shower heads are being installed across a number of campus buildings as part of a three-year refurbishment at the UK's fifth oldest university.

The Buildcert TMV3 approved 215-T3 BC concealed thermostatic mixing valve incorporates a sealed, maintenance-free cartridge, making it a popular choice with university maintenance staff and facilities managers.

Equally easy to maintain is the highly robust BSR-S/300 shower head. The product comes complete with a metal rigid shower arm, adjustable chrome plated head and durable polished chrome

finish, and is ideally suited to education settings.

Rada's experts are working with teams from shower cubicle and pod manufacturer Taplanes, who are conducting the installation work.

Jonathan Braunton, sales and marketing coordinator at Taplanes, said: "We have worked with Rada on a number of university projects and can always rely on them to provide high quality washroom solutions which not only meet all of the required building regulations, but meet the needs of each project too."

Eoin McQuone, senior marketing manager at Rada, said: "Rada has a great range of products designed with the education sector in mind and we're delighted to see them specified by the Taplanes team for their work at the University of Aberdeen."

"Our systems complement their cubicles and pods extremely well, providing the university with a cost effective, long term solution."

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Infill grill offers wet rooms a finishing touch



CCL Wetrooms, a leading wetroom specialist has unveiled the latest development in the aesthetics of wetroom drainage – the new Stone-Infill Grill – a stunning way of creating a continuous stone floor, virtually unbroken by the line of a stainless steel drainage grill. The Stone-Infill Grill is suitable for use with natural stone and porcelain tiles, which are

simply inserted into the empty Infill Grill, creating a beautiful finishing touch to any wetroom. Suitable for use with the popular Modular Wet-Floor System for timber floors and the Linear Screed Drain for solid floors, the Stone-Infill Grill adds a sleek and minimalist feel to any wetroom.

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drainage. In addition, the complete system is supplied with factory fitted integrated drain technology to guarantee reliability and consistency during installation. The wedi system provides a tried and tested solution with guaranteed 100 per cent water tightness. wedi Fundo Plano Linea is available in rectangular and square in a range of sizes and a choice of long or short linear channel drain.

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Segreto leads the way for Mereway



Mereway Bathrooms are delighted with the success of Segreto handleless design from its collection. Building on the success of this popular J pull door style for Mereway Kitchens, Segreto joined its bathrooms portfolio, creating a sleek handleless feel in a new part of the home. Segreto – Italian for ‘secret’ or ‘hidden’ – comes in a top-selling finish of White Gloss which

presents a fresh, sleek look. The Segreto door profile is carefully calculated to provide the perfect ergonomic shape for fingertips to grip easily giving just enough leverage to pull doors open with ease.

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ShowerSelect concealed thermostat sets



As part of the innovative Select programme from Hansgrohe, the new ShowerSelect concealed thermostat sets make selecting and turning the different functions on and off both intuitive and pleasing: with the simple push of a button. There are no complex electronics, just a reliable mechanical control that is also easy to install in conjunction with the iBox. The new Select ready-to-use sets are available in five functional versions, ranging from a thermostat with a simple On/Off function for one outlet to a combination featuring

ShowerSelect for up to three different functions with a separate thermostat.

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MHA Lighting quadruple light levels in factory

A global manufacturer of high performance and innovative cable management solutions has almost quadrupled light levels in its Manchester factory thanks to an LED lighting solution.

Thanks to the innovative lighting provided by MHA Lighting, HellermannTyton has almost quadrupled the light levels in parts of its Manchester manufacturing site from an average of 90 lux to 400.

Switching to LED lighting was part of the forward-thinking company's strategy to improve light levels in former warehouse areas that are now being used for production, while ultimately reducing associated energy costs and CO₂.

With thousands of people depending on HellermannTyton's products in a variety of environments, it was imperative that light output, light quality and uniformity were high quality so as to aid precision working and general inspection.

With its low-energy luminaires and ability to design bespoke, precision lighting solutions – MHA was ultimately chosen from four lighting companies who quoted for the work.

HSE officer at HellermannTyton, Chris Brookes, said: "We had looked to four well-known lighting companies to get different quotes for these projects, but only MHA actually surveyed the areas and discussed our specific lighting



needs with us.

"From the very beginning their attention to detail was amazing – nothing was too much trouble and everything was about us ultimately getting the right solution for the individual application.

"We are absolutely delighted with the results and can honestly say that we got what we wanted."

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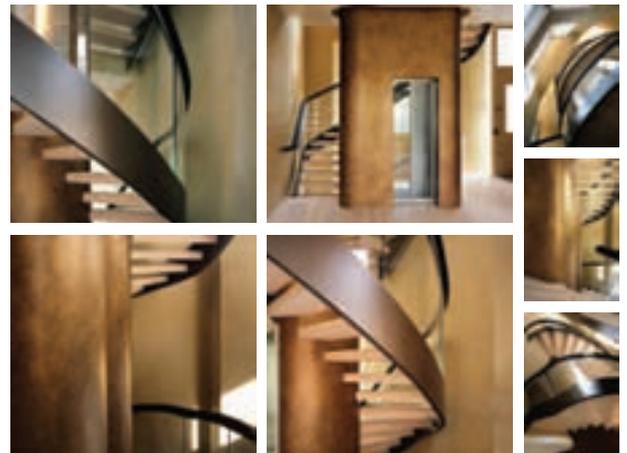
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North-West facing a renewed war for talent



Research analysis by the Manchester Society of Architects (MSA) and Steelcase Solutions, workplace and office interiors experts, has revealed that quality of working environment is second only to salary in determining job satisfaction and is an increasingly important factor. Greg Aspinall, sales

manager, northern regions, from Steelcase Solutions, said: "We are integrating more and more technology into office spaces which helps to support and inspire staff. This can be as basic as more TV screens that can be used for anything from telepresence with colleagues and potential clients, to watching the football with colleagues after a hard day's work. Companies are increasingly investing in break-out spaces, where workers can socialise, collaborate and relax."

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Available in a large range of colours, Bradite's floor paint is a high performance polyurethane alkyd resin based semi-gloss finish paint with excellent wash and wear resistance. It is ideal for concrete, wooden floors and prepared steel floors subject to light and medium traffic. It is resistant to spillage

of mild chemicals, detergents and oils and can be used with low slip additive. Touch dry in just 2 hours. Bradite is an ISO9001 quality assured company and also holds ISO14001 environmental approval.

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Pukka flooring for Jamie's restaurant



Foodies visiting Jamie Oliver's Fifteen restaurant in Cornwall can admire more than just the cooking after Tarkett produced a bespoke floor for the popular eatery. As part of a recent renovation project, the flooring experts from Tarkett's Floorcraft Design team were commissioned to produce a unique design. Using

128,000 individually cut tiles, the team created a repeating black and beige pattern that was installed at the entrance and around the bar area. In total more than 80 sq m of flooring was created from Tarkett's Luxury Vinyl Tile iD Inspiration 70 range. The range is environmentally friendly being 100 per cent recyclable.

01622 854 040 www.tarkett.co.uk

enq.290

A grand tour of projects in the latest A Book



Far from having to travel the globe, all that architects and interior designers need for inspiration on specifying interior solutions is contained within Armstrong Ceilings' *A Book* for 2014. Regardless of the culture, climate, client, complexity or cost implications of a project, the new *A Book* proves that Armstrong has a ceiling solution for even the most demanding of briefs and contemporary environments. The showcase features a variety of

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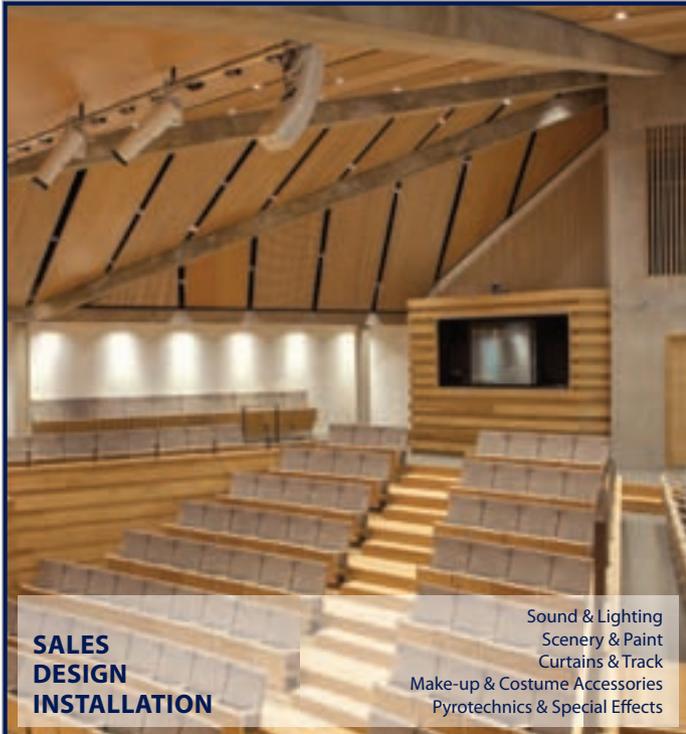
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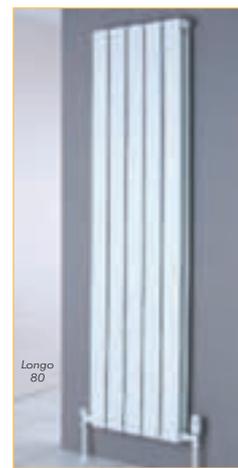
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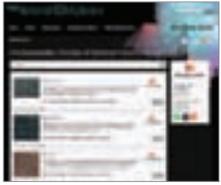
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Heckmondwike FB become BIM approved



Heckmondwike FB has become one of the UK's first carpet manufacturers to create Building Information Modelling (BIM) objects for its full range of carpets and carpet tiles, in partnership with the NBS National BIM Library. Authored to NBS standards, Heckmondwike's BIM objects will have compatibility for Industry Foundation Classes,

Revit Architecture, Bentley AECOsim, Nemetschek Vectorworks and Graphisoft ArchiCAD. Robert Mortimer, sales director for Heckmondwike FB, said: "It is fantastic to be one of the first flooring manufacturers to feature on the NBS National BIM Library with over 360 colour BIM objects."

01924 406161 www.heckmondwike-fb.co.uk

enq.298

A+ for Polyflor at academy



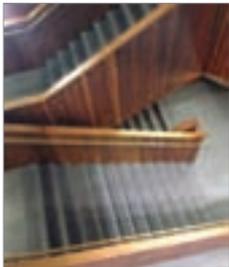
A selection of Polyflor products were featured in the Ormiston Sir Stanley Matthews Academy project in Stoke-on-Trent. A total of over 4,500m² of Polyflor products were specified by Associated Architects of Birmingham and installed by Leicester based Westcotes Flooring Company, including Classic Mystique PUR to circulation areas and Polysafe Vogue Ultra PUR to stores, classrooms and laboratories. All Polyflor materials used in

the project achieve an individually certificated BRE Global A+ rating, contributing towards the award of a BREAM: Very Good rating to the project. Further details of the extensive range of resilient vinyl flooring are available from Polyflor.

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enq.299

Welsh Slate puts school on a firm footing



Welsh Slate is helping students at the Guildhall School of Music & Drama get their first feet on the career ladder. More than 500m² of the company's flooring products have been used throughout the public areas at Milton Court, the new £89 million addition to the school. Linear paving tiles, measuring 600x125x18mm in the colour Penrhyn Heather Red that was flame textured with sawn edges, were complemented by the same colour skirting and by 43 stair treads and

risers with a detailed front edge. They were specified by RHWL Arts Team to satisfy the client's requirement for a hardworking, world-class building.

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5,000+ homes' fire & CO alarms upgraded



Trent & Dove Housing has recently completed a major smoke and carbon monoxide (CO) Alarm installation programme using solely Aico mains powered alarms and accessories. Aico 160 Series smoke alarms were originally fitted throughout the 5,200 properties, therefore to reduce installation times and costs, Trent &

Dove Housing kept the existing Aico 160 Series Easi-fit base plates for the alarms fitted upstairs, while installing the ground floor alarms on RadioLINK bases. RadioLINK allows Aico alarms and accessories to be wirelessly interconnected by radio frequency (RF) signals rather than cabling, which saves time and disruption when installing systems in existing properties.

enq.601

Fire protection systems provide the solution



All but indistinguishable in appearance from standard products, Schueco UK fire-protection systems have been independently tested to EN 1364/1634, meeting all the necessary criteria for Integrity (E) – the prevention of the spread of flame – and Integrity/Insulation (EI) – the prevention of the spread of flame and the provision of a barrier to heat. The Schueco fire protection range includes single and double Schueco ADS 80 FR doors which can be specified with either a

30 minute integrity or 30/60 minute integrity/insulation rating and, like every system in the range, they meet the performance classification of EN 13501.

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FDS Consult fashions a high end solution for Alexander McQueen



FDS Consult was enlisted to provide a fire safety solution for the Alexander McQueen clothing store in London's Dover Street. The creation of the flagship store involved the transformation of an existing seven storey building, which had one staircase serving seven floors. FDS Consult recommended creating a sterile zone from the lift and staircase directly outside of the building, giving occupants a protected route outside. In order to achieve the protection, fire curtains were placed in this zone. The fire curtains would drop in two stages, ensuring no individuals can be trapped on the wrong side of the curtain on the ground level shop floor during a fire. The company designed a mechanical smoke extraction system to operate only during the first stage of the curtain's closure. A sprinkler system was installed throughout the store. This system complied with the insurer's life safety standard requirements and had the added benefit of both reducing the size of any potential fires within the retail space and lowering the rate needed for the mechanical smoke extraction system. To address the fact the existing building was over 11 metres in height and had a single staircase that needed to be protected, FDS Consult recommended pressurisation systems be installed in both the stairs and lift areas to pump air into the spaces and protect them against smoke.

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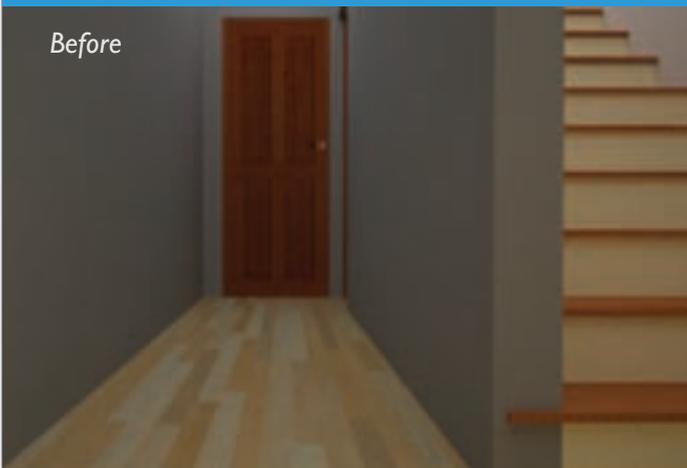
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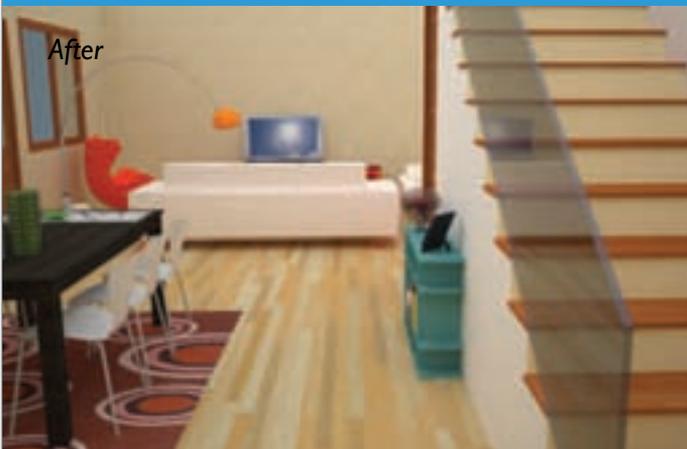
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Seamless fire protection



The importance of reducing false fire alarms

By Michala Ford, marketing manager of Safety Technology International (Europe) Ltd

The problem caused by false fire alarms

Every false fire alarm is costly, disruptive and detrimental to safety. Each year businesses and public services in the UK have nearly a quarter of a million false alarms costing them and Fire & Rescue Services approximately £1 billion [source: Fire Industry Association, 2013]. Every false fire alarm causes major disruption to customer service, productivity or the general routine of any organisation.

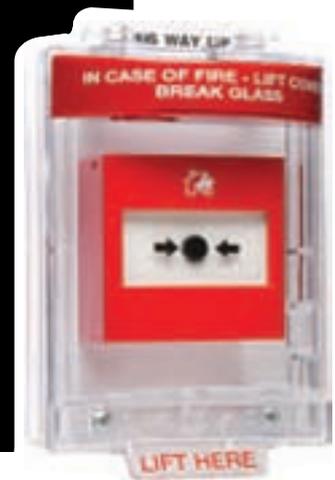
Beyond disruption, false fire alarms have a significant impact on the effectiveness of a fire evacuation strategy and may put the lives of staff, students and visitors at risk. If a genuine fire alarm is mistaken for yet another false alarm, and therefore ignored, the physical consequences for the people involved can range from respiratory difficulties, injury from burns or even death.

Quick and appropriate reactions to a fire alarm may prevent a real fire from causing significant damage and disruption. Companies that suffer a serious fire may never effectively recover and could stop trading.

Measures imposed to reduce false fire alarms

It has been announced that The London Fire Brigade (LFB) will be the first Fire & Rescue Service in the country to charge organisations for calling out

enq.607



its fire fighters to false fire alarms.

From the 1 January 2014, the likes of hospitals, airports and student accommodation will be paying for callouts to false fire alarms.

The £290-plus-VAT penalty, which will not hit domestic properties or care homes, will apply to buildings across London [source: *Wandsworth Guardian*, 30 December 2013].

Many Fire & Rescue Services across the UK are starting to take a similar approach with varying costly penalties.

Who is responsible for false fire alarms?

Under The Regulatory Reform (Fire Safety) Order Act 2005, it is the responsibility of the building owner or the 'responsible person' to ensure effective fire precautions are in place to protect staff, students or visitors. Several precautionary steps can be implemented to prevent false fire alarms before they occur. Routine testing and maintenance to call points is a must to assure proper operation, but it is not the only proactive approach.

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Accidental false fire alarms (for example, a call point hit by a ball in a sports hall or heavy equipment within a warehouse, etc.) can easily be prevented by installing call point covers. Covers can also provide a level of weather protection from IP24 to IP56, ideal for use in extreme conditions, indoor or outdoor, such as wash down areas and saline atmospheres.

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'Every false fire alarm causes major disruption to customer service, productivity or the general routine of any organisation'

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FR Coatings Alert

By Stephen Young, director of the Wood Protection Association

The Wood Protection Association (WPA) is calling on building designers to double-check the fire performance claims of flame retardant treatments before they commit to a specification. The move follows research for the WPA that has highlighted the potential for products, certain low viscosity coatings in particular, to be specified without the appropriate fire performance test data.

Fire safety is an important factor in building design and if wood is to fulfil its potential as a construction material, getting the fire retardant specification right is absolutely critical. The key is to ensure that a Fire Classification Report from a Notified Body (or a fire test report for BS 476 classifications) is available for the required application.

A Notified Body is an organisation that has been accredited by an EU Member State to assess whether a product meets a certain preordained standard. Fire Classification Reports state the fire performance of the treated timber after controlled testing in accordance with BSEN 13501 – for example: Euroclass B, s1, d0. In this case, 'B' is the class achieved, 's' is the smoke rating and 'd' is the burning droplets rating.

Classification Reports also specify a 'field of application' to which the classification applies. The field of application, for impregnation treatments and low viscosity coatings that are not paints, defines the minimum treatment loadings for the fire retardant, the species of timber and type of component (e.g. spruce cladding) and the allowed variation in thickness (e.g. 12mm to 25mm). For flame retardant paints standard substrates may have been used in testing that permit a wider range of substrates in actual use but this should always be checked.

There is no such thing as a single Fire Classification Report

that fits every species, commodity and end use application. That's why the WPA urges specifiers to satisfy themselves that the description of the product given in the Classification Report quoted by the manufacturer can be taken to apply to the timber they want to use in a project.

Specifiers need to be aware that different species or cross sectional sizes and design factors such as air-gaps do affect fire performance ratings and may require an Extended Application Report. Extended Application Reports provide the evidence that defines a fire retardant product's application scope or range of substrates and thicknesses to which a Classification Report applies. If no Extended Application Report is available for the component then another treatment that is appropriate to the application should be chosen.

The WPA recognise that with more products on market than ever claiming fire performance to Euroclass standards, choosing the right product can be confusing. To help guide designers, the Association publishes a *Flame Retardant Specifiers Manual* which provides detailed information on the flame retardant treatment of wood and panel products. The manual includes a simple checklist setting out for impregnated, low viscosity coated and factory-incorporated products a step-by-step guide to selecting the right product for the job. The WPA also maintains a list of approved fire retardant products that meet its own product quality and performance procedures.

These procedures includes verification of independent test results and reports from Notified Bodies providing designers with an easy and highly credible source of reference and product knowledge.

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'Specifiers need to be aware that different species or cross sectional sizes and design factors such as air-gaps do affect fire performance ratings'



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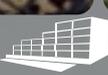
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Watford Junction benefits from Brett solution



Brett Landscaping has underlined its ability to bring exceptional functionality and aesthetics to commercial landscaping installations with a 15,000m² project to upgrade the bus interchange at Watford Junction station. The Brett solution integrates the company's specialist Kassel bus boarding kerbs with its Omega and

Piatto block paving ranges to provide a harmonious palette of colours and textures on the project. By deciding to combine the two paving projects and commission both to Brett, a perfectly merged and contemporary external space has been created that combines practicality with exceptional aesthetics.

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Tufted cricket surfaces come out on top



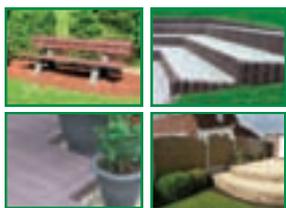
Tufted synthetic turf cricket surfaces are nearly twice as durable as woven ones, according to new independent analysis based on the British Standard test used by the England and Wales Cricket Board. Notts Sport, a world leading supplier of non-turf cricket pitches, has long been confident that its hard-wearing tufted surfaces are a cut above outdated woven manufactured pitches. The premium NottsGrass NG12 carpet and its lower cost alternative NottsGrass NG7 were subjected to rigorous abrasion testing alongside a woven surface. The woven surface had a mass loss of 14.985 per cent of its original weight, nearly twice as much as was lost by both

Notts Sport's NG12 surface (7.914 per cent) and NG7 (8.144 per cent).

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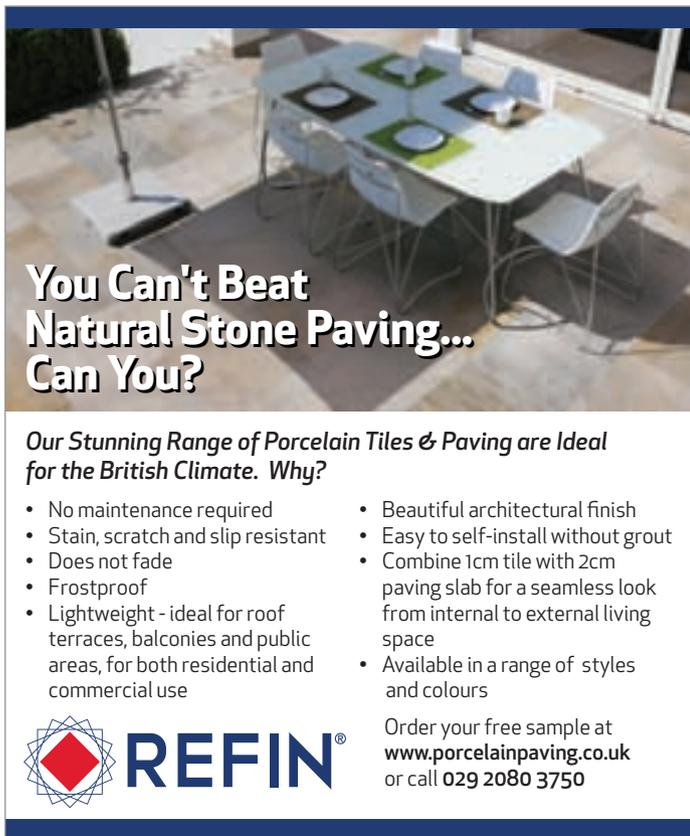


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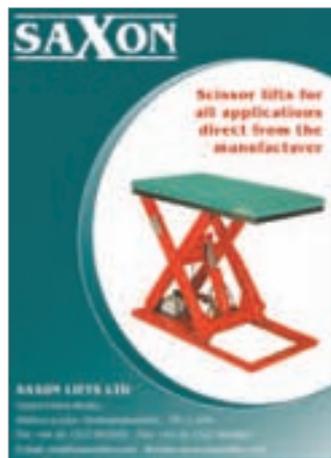
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