

September 2013

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Building for education:
University of Leicester
Cardiovascular Research Centre

Heritage & historic:
The struggling conservation,
restoration & refurbishment sector

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CE marking guidelines

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projects

20 **Heritage in decline**
The conservation, restoration and refurbishment sector is struggling in the face of public spending cuts, reduced funding from banks and heritage trusts and foundations and a dearth of skills. Stephen Cousins reports

30 **The heart of the matter**
A constricted site overlooking live hospital wards has given the University of Leicester a new Cardiovascular Research Centre, Mark Smulian reports

features

35 **LEGISLATION UPDATE: CE MARKING**
CE marking. What does it mean for architects?
By Geoff Gurney, CE marking manager at BBA

45 **EXTERNAL FIXTURES: ROOFING & CLADDING**
Lead roofing and its modern replacements
Theft of lead flashings from roofs and concerns over the health and safety implications of working with the material generally has prompted the launch of lead-free solutions. Kevin Ley, technical manager of UK roofing manufacturer Redland, explores the issues

53 **INSULATION**
VIPs seal the deal
By Tony Millichap, technical manager of Kingspan Insulation Limited

57 **HEATING & VENTILATION: FIRES & FIREPLACES**
How to design in solid fuel
Addressing the challenges of designing solid fuel into the modern built environment, experts from the Solid Fuel Association (SPA) reports on three issues which can leave architects scratching their heads

67 **INTERIORS: COATINGS, SEALANTS & PAINTS**
Specifying historic shades with flame retardant protection
When choosing paint for historic buildings, specifiers can choose products that offer a double duty, with high technology flame retardant paints available in historic colour palettes. Debbie Orr, Crown Trade brand manager gives an insight

news & events

4 Industry News
9 Events
16 CPD Focus

HEADLINES

5 Celebrated architects, designers and artists create unique pieces of art
11 New National Stadium of Japan for Olympic and Paralympic Games 2020
14 The Sunday Times British Homes Awards 2013 shortlist announced

Healthcare Estates
Exhibition, Conference & Dinner
8-9 October 2013 Manchester Central

49 Show Preview

products

18 Editor's Focus
37 Planning & Design
37 Groundworks
38 Structural Elements
38 External Fixtures
51 Insulation
52 Heating, Ventilation & Services
62 Interiors
72 Safety & Security
73 Landscaping & External Works
75 Classified & Directory



Cover image: A newly installed steel and timber spiral staircase hugs the octagonal interior walls of Hadlow Tower, rising several storeys to the top
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See page 20 for details

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URBAN PLANNING

A ray of hope for the 'death-ray' building

The London skyscraper nicknamed the Walkie Talkie, which unwittingly projected scorching sunbeams onto the streets below, has highlighted the need for city planners to use a 'plug-in' tool pioneered by a **Birmingham City University-led** consortium.

The European-wide KIC-Transitions (KIC-T) project will bring together data, modelling and visualisation tools to provide a comprehensive simulation framework that will assist urban strategic planning.

The integrated platform will allow cities to 'plug-in' a wide range of information sets for analysis of key environmental impacts, including energy needs, noise pollution or carbon emissions.

"Designers behind the Walkie Talkie building have cited climate change and even the lack of analytic tools as potential reasons for the so-called 'death-ray' effect," said Professor Keith Osman, director of research at Birmingham City University.

"This has highlighted just how important our project will be in helping urban planners to better assess the impact such ambitious buildings will have when built in real city environments."

Professor Osman said the enhanced modelling capability being developed through KIC-T will allow city planners, designers and city-dwellers to better understand the full implications of planning decisions.

"KIC-T is defining standards and software to allow city

data, models and visualisation tools to be readily plugged together, allowing more comprehensive models to be created which can be applied to cities around the world.

"Currently it is often extremely difficult to reuse or combine existing tools to investigate resource consumption, sustainability and assess the environmental impact and quality of life for citizens."

Professor Osman added: "KIC-T demonstrates the commitment that Birmingham City University has to the wider sustainability and climate change agenda, and shows how we are able to provide some of the cross-disciplinary expertise required for these challenging topics with global significance."

The KIC-T project team includes Birmingham City University (Coordinator), ETH Zurich, Netherlands Organisation for Applied Scientific Research, plus large international companies including ESRI and IBM, small companies like Aria, SBC and Greenhill and the three cities of Birmingham, Rotterdam and Zurich.

The Climate-KIC is Europe's largest public-private innovation partnership, working together to address the challenge of climate change. The Climate-KIC is funded by the European Institute of Innovation and Technology (EIT) which has a wider mission to increase European sustainable growth and competitiveness by reinforcing the innovation capacity of the EU.



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ISG & Stride Treglown's FORM model school is first in Wales

ISG and Stride Treglown's highly flexible FORM model school has secured major backing from the Vale of Glamorgan County Council, which has selected the design concept for its new £2.7 million Nant Talwg School in Barry. The project has key significance within Wales as it represents the first practical application of a model school template in the country.

Ysgol Nant Talwg will be ISG and Stride Treglown's fifth model school, with successfully completed projects at Old Sarum and Amesbury Archer in Wiltshire, Jennetts Park in Berkshire and St Martin's in Devon. The jointly

developed FORM school delivers modern, dynamic and affordable education space.

Starting this November, ISG is constructing the new Welsh Medium School on a site adjacent to the existing Ysgol Nant Talwg, which has outgrown its current facilities. The single entry school will accommodate 210 pupils and a nursery, with the single-storey steel frame building also incorporating a spacious central hub area, multi-use hall, office space and meeting rooms.

As part of the project, ISG will remove and relocate the temporary existing teaching accommodation to a



different site when the new school opens in time for the start of the 2014 academic year. Externally, new hard and soft play areas will be created alongside an attractive landscaping scheme.

The FORM school will achieve a BREEAM Excellent environmental performance rating, with true lean construction design, natural ventilation and, at Ysgol Nant Talwg, roof mounted photovoltaic cells to generate emission free electricity.

SUBJECT

Celebrated architects, designers and artists create unique pieces of art for 10x10: Drawing the City London exhibition and auction

Article 25, the architectural and construction aid charity, brings together world renowned artists, architects and designers to produce original artwork for a high profile auction and exhibition held in late November.

As part of the 10x10 Drawing Weekend, which took place on 14 and 15 September, a section of London was divided into a 10x10 grid with each of the 100 squares allocated to a prominent architect, designer or an artist. Using any medium available, they will create 100 pieces of art, capturing the unique, the extraordinary, the unnoticed and the ever changing city of London.

One of the participants is Sir Terry Farrell CBE, the UK's leading architect planner, who has completed many award-winning buildings and masterplans including Embankment Place and The Home Office Headquarters as well as millennium projects such as The Deep in Hull and Centre for Life in Newcastle. Throughout his career, he has championed urban planning and helped shape government policy on key issues.

Also capturing the city of London was Dr Jonathan Foyle, a historian and

television broadcaster best known for presenting a number of television series on architecture and history, including *Climbing Great Buildings* for BBC2 and *The King's Lost Bed* on BBC4. He also writes on architectural themes for the Financial Times and his book on Canterbury Cathedral was published this year by Scala.

These are just a few of the 100 artists, designers, architects and public figures helping to raise funds for Article 25. This year, Article 25 will be using all proceeds from the sale of artwork to design and build best practice Street Children's Centres, helping to get thousands of Africa's most vulnerable children off the streets permanently and reconnecting them with their families or foster families.

These Street Children's Centres will be designed together with the children so that they genuinely meet their needs and create the best possible environment for rehabilitation. The Centres will provide them with places to sleep, medical support, counselling and help in reengaging with education or training. Article 25 plans to launch the first of these

innovative Centres in Kenya and Ghana, producing a prototype design that can be replicated throughout the continent.

Maxwell Hutchinson, founder of Article 25, broadcaster, architect and former past president of the Royal Institute of British Architects says: "Article 25 is an innovative charity with design, drawing and architecture at its very heart. This is the third year of its 10x10 event which celebrates all the visual representations of the built environment – whether it be drawing, photography, painting or sculpture. As in previous years, an array of well-known architects and artists once again offer their skills and support for the benefit of those in need of sustainable shelter".

The artworks will be displayed in an exhibition in November, with visitors being given the opportunity to bid in an open electronic auction. The culmination of the exhibition will be a live auction of selected pieces by Sotheby's at 1 Granary Square on 28 November. All the proceeds of the auction go to Article 25, one of the few international charities involved in the built environment.

www.10x10london.com



Sir Terry Farrell for 10x10
Drawing the City London 2012

'Article 25 will be using all proceeds from the sale of artwork to design and build best practice Street Children's Centres'

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Flagship E.ON HQ – landmark project despite challenges



At 105,000 sq ft, Trinity House in Nottingham city centre is one of the largest pre-let offices outside London.

The flagship development, the new call centre headquarters for energy company E.ON, is designed by **maber architects**, and comprises eight storeys of Grade A office space.

The landmark build occupies a challenging city centre site adjacent to Nottingham's Grade II listed Guildhall in the new business quarter, kick-starting regeneration of the area.

Mark Hobson, managing director at maber, said: "Trinity House is designed to be a high quality, iconic building that will make a positive contribution to its surroundings. I believe we have achieved this, with a development that is environmentally sustainable, as well as securing 600 jobs here in Nottingham."

The project faced many challenges – its city centre location, the proximity of the neighbouring buildings (the majority of which were to remain occupied) and the adjacency of the Listed Guildhall building.

The maber design envisages a modern and vibrant working space with efficient occupancy density and flexible layout. Workers benefit from full height glazing and a central atrium that afford high levels of natural light.

The building provides a mix of cellular and open plan styles, with formal meeting rooms, informal meeting spaces and training suites.

The project achieved 'BREEAM' excellent accreditation, an Energy Performance Certificate rating of 'A', and has Secure by Design certification. It won this year's RICS East Midlands Commercial Award.

Local authority: Nottingham City Council

Client: E.ON

Architects: maber

Developer: Miller Birch

Contractors: Bowmer & Kirkland

Civil & structural engineers: BWB Consulting

Project & cost manager: Gleeds

Consultant engineer: ESC

Working Environments HQ becomes a centre of excellence with air conditioning from Mitsubishi

Working Environments Ltd, mechanical and electrical specialists, recently decided to develop and modernise their existing headquarters at Monza House in Southampton to accommodate the integration of the two other southern branches into one.

The company not only wanted to provide a comfortable place for staff and customers, but use the building as a showcase for Working Environments' expertise and services.

As a business solutions provider for **Mitsubishi Electric**, Working Environments has a very close relationship with the manufacturer: "We have worked closely with Mitsubishi Electric for many years and when we first heard of this innovative development, we wanted to be one of the first to check out its merits," explained Mike Jenkins, special projects director for Working Environments Ltd.

The new HVRF (Hybrid-VRF) air conditioning unit uses less refrigerant than traditional VRF (Variable Refrigerant Flow) systems while providing simultaneous heating and cooling in a simplified two-pipe design. This removes the need for leak detection equipment and allows more properties to benefit from the flexibility of both design and operation that VRF can bring.

At the heart of the new system is an HBC (Hybrid Branch Controller) box, which is connected to the outdoor unit via traditional refrigerant piping. Between the HBC

box and the indoor fan coils, the system uses water piping but still offers high sensible cooling and stable room temperatures for maximum comfort.

"Many of our buildings have been traditionally cooled and heated through a combination of chiller technology and oil or gas boilers, but with increasing legislation on energy efficiency and the rising cost of fuel, we now need a low-carbon, cost-effective alternative," explains Mitsubishi Electric's Mark Grayston. "We have developed this new approach to answer the need for energy efficiency and internal comfort."

Work on installing the HVRF system into Monza House was split into several phases. Overall the refurbishment and fit-out took a total of 15 weeks and also incorporated a redesigning of the remaining ground floor offices to provide a new central accounts office for the TEPE (The Environmental & Process Engineering) Group and an office for the newly created Maintaining Environments – an integrated facilities management business.

"We have now installed monitoring equipment to allow us to see how well the system is working for us and the feedback from staff has been fantastic," explained Mike Jenkins. "Everyone has noticed how fresher and more balanced the internal temperatures have been and we've also noticed fewer drafts."

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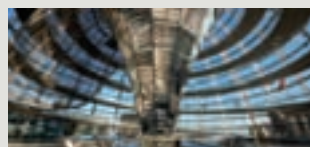
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events

AWARDS

RIBA Stirling Prize party 2013
26 September, London
www.architecture.com/whatson

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

CONFERENCES & SEMINARS

Context: Understanding historic buildings – refurbishment and building performance
25 September, Nottingham
www.architecture.com/regionsandinternational

Passivhaus: myths and realities
26 September, Birmingham
www.birminghamarchitecture.co.uk

INSITE13
2 - 3 October, London
www.insite13.com

BIM: the small practice perspective
4 October, Birmingham
www.birminghamarchitecture.co.uk

Concrete Best Practice Roadshow
2 October, Glasgow
10 October, Manchester
www.concretecentre.com/events

Procurement and contracts: Design liability and contracts
10 October, Gateshead
www.architecture.com/whatson

EXHIBITIONS

Sir Hugh Casson PRA: Making Friends
Until 22 September, London
www.royalacademy.org.uk/events

Northern Vision: Master Drawings from the Tchoban Foundation
Until 28 September, London
www.soane.org/exhibitions

Ice Lab: New Architecture and Science in Antarctica
Until 2 October, Glasgow
www.glasgowarchitecture.co.uk/lighthouse_exhibition

UNIT Architects @ Buro Happold Emerging Architects Exhibition
Until 11 October, London
www.unitarchitects.co.uk

Richard Rogers RA: Inside Out
Until 13 October, London
www.royalacademy.org.uk/events

Serpentine Gallery Pavilion 2013 - Designed by Sou Fujimoto
Until 20 October, London
http://www.serpentinegallery.org/2013/02/sou_fujimoto_to_design_serpentine_gallery_pavilion_2013.html

Green Fuse: The Work of Dan Pearson
Until 20 October, London
www.gardenmuseum.org.uk

The Future is Here: A New Industrial Revolution
Until 29 October, London
<http://designmuseum.org/exhibitions>

10x10 Drawing the City London Exhibition
Mid-November, London
www.10x10london.com

FESTIVALS

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

Festival of Architecture in Norwich & Norfolk
10 October - 7 November, Norfolk
www.fann.org.uk

FILM

Urban Wandering – Film and the London Landscape
Until 28 September, London
www.barbican.org.uk/film

Visual Acoustics: The modernism of Julius Shulman (2008)
22 October, London
www.architecture.com/whatson

Diana Vreeland: The Eye has to Travel (2011)
5 November, London
www.architecture.com/whatson

NETWORKING

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

netMAGevents Best of British Christmas Party
12 December, London
<http://netmagevents.eventbrite.co.uk/>

TALKS, LECTURES & DEBATES

Designing Cities
23 September, London
www.royalacademy.org.uk/events

Concrete Elegance - Exploring Light and Spatial Creativity
24 September, London
www.buildingcentre.co.uk/events

We Made 2012 – Sustainability
30 September, London
www.buildingcentre.co.uk/events

Saturday Talks: Everything you ever needed to know about...
...appropriate technology, 12 October
...3D printing and mass customisation, 19 October
...CNC routers, 26 October
London
<http://designmuseum.org/talks>

Creativity in Stone: How visionary engineering expedites new concepts in stone
26 September, London
www.buildingcentre.co.uk/events

Designers in Residence: Weekend table talks
Until 2 November, London
<http://designmuseum.org/talks>

TOURS

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

Great British Buildings: Quadrant 3
24 September, London
www.architecture.com/whatson

Open-City Architecture Tours
Architecture on the Thames, 28 September
City Fringes East (walking), 28 September

London Riverside (walking), 5 October
From Wren to Rogers (photography), 5 October
King's Cross Renaissance (walking), 12 October
Architecture by Night (photography), 15 October
TBC, 19 October
City Fringes, 26 October
Architecture on your Bike – Art Deco, 27 October
London
<http://open-city.org.uk/activities>

TRADE SHOWS

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

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

Energy Efficiency Exhibitions, incorporating Renewables Roadshow
Dates left: 24 September, Surrey
26 September, Manchester
www.energyefficiencyexhibitions.co.uk
www.renewables-roadshow.co.uk

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

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

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

Retrofit Roadshows
Dates left: 5 September, North East
17 September, Wales
29 November, London & South East
www.retrofit-roadshow.co.uk

WORKSHOPS

Internal management: Business planning and marketing for architects
Dates until 15 October, London
www.architecture.com/whatson

Designing and building it: Passivhaus myths and realities – a 'get you started' active workshop for architects and designers
Dates until 5 December, London
www.architecture.com/whatson

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New £6.2 million Prime Student Living build starts in the heart of Bristol city centre...

Ref: 14684

Willmott Dixon to create East of England centre of excellence...

Ref: 75343

Living and working with climate change...

Ref: 13560

Book: Patrick Keiller's 'The View From The Train' – The first collection of writings from the filmmaker & creator of the Robinson Trilogy...

Ref: 30799



DESIGN

Design Council calls for new government strategy to deliver aspirations for good design in the built environment

Ahead of this year's party conferences the Design Council has called for a new cross-government strategy and a commitment from all political parties to deliver and inspire public demand for high quality design in the built environment.

Through the experience of its Cabe team and in consultation with its network of Built Environment Experts the Design Council has identified the following key recommendations to the Farrell Review of Architecture and the Built Environment to put to government:

1 A new cross-government strategy to deliver policy aspirations to achieve high quality results

There is not currently a long-term cohesive approach to delivering better quality places in the UK. A new strategy for architecture and the built environment is needed to deliver the government's aspirations set out in policies such as the National Planning Policy Framework (NPPF) for high quality buildings, spaces and places for everyone.

Led by the Prime Minister through Cabinet Office, the appointment of a cross-party committee to oversee the strategy will ensure a long-term commitment to achieving quality of place regardless of government changes to ensure that this country is a fairer, safer, healthier and more prosperous country for all.

2 Invest and strengthen mechanisms for delivery

Over the last fifteen years the Cabe team at the Design Council has developed and delivered proven mechanisms such as Design Review and enabling support to ensure high quality outcomes are

achieved through the planning system. If used consistently these mechanisms have been proven to help deliver good design.

It is therefore critical as part of any new government strategy that these mechanisms and urban design expertise are made accessible to all participants in planning to help ensure that quality is not compromised at any stage of the process.

3 Government demonstrating leadership as a client

The government through its public building programmes (including housing, infrastructure and schools) has power to demonstrate excellence while delivering value for money. It could do so through:

- a review of the public procurement process and the introduction of a new code of practice for design procurement for publicly funded projects to ensure the most fair and open process that appoints the best and most appropriate designers for the job.
- ensuring all publicly funded projects have access to design support and are referred to Design Review to demonstrate a clear commitment to design quality.
- compulsory long-term evaluation of public projects measuring the impact of better designed schemes.

4 Empowering local decision makers to identify and refuse bad design

Local government is critical in the delivery of great places and should also take responsibility for the delivery of the new strategy. A local councillor can influence the future of an area and has the opportunity to make it a great place to live and work. All councillors with responsibility for planning should therefore have mandatory training on urban design and the built environment to enable them to make informed decisions at committee. We have worked with almost every council in the country, helping them to seize the creative and economic opportunities of a specific project or a long-term programme of work. Across all services, councils have told us they want three things: mentoring

(professional support), inspiration and information (on-line resources with practical advice and digital platforms to stimulate debate).

HOUSING

PCKO Architects wins 33 planning applications to repair the Briar Road Estate



Permissions give consent to 102 new homes and detailed "small project" schemes that tackle the design issues affecting Outer London's postwar Radburn plan housing estates.

PCKO Architects has won the last of 33 separate planning applications that will allow work to begin on their master-plan for the 25 hectare Briar Road Estate in the London Borough of Havering. The plans, drawn up for the London Borough of Havering and Notting Hill Housing Trust, will provide 102 new homes, of which 84 will be two-bedroom houses or larger, while retaining and improving the quality of the existing estate.

David de Sousa, Senior Associate at PCKO Architects said:

"The Briar Road estate is very typical of the low density, "Radburn plan"

estates built all over Outer London in the postwar period. While the existing community is strong and there are great local assets, the estate also faces its share of problems that relate to its urban design.

"At the same time as creating new housing, our masterplan seeks to make a large number of strategically placed, small interventions that will improve the layout of the estate and the quality of spaces, creating a safer, more social environment that offers residents better access to existing facilities and adds much needed improvements such as a children's playground."

Visit adf-news.blogspot.co.uk and enter reference number **98528** to view more information.

BOOK

Sir Peter Hall writes new book on what's wrong with urban planning in Britain today

Internationally renowned academic Sir Peter Hall has just published a new book, *Good Cities, Better Lives* with Routledge/Taylor & Francis, looking at the urban planning challenges faced in Britain and other countries, and how lessons from the European experience can help to put it right.

Fifty years ago this summer, in 1963, Hall became so incensed by the way London was being planned that he wrote a book about it. That book, *London 2000*, made a stir and half a century and fifty books later, he's returned to the battle at age 81 with *Good Cities, Better Lives: How Europe Discovered the Lost Art of Urbanism*. It promises to have the same impact.

Good Cities, Better Lives will be required reading for policy-makers, planners, academics, and for anyone who cares about places and place-making, both in Britain and around the world.

To coincide with the publication of *Good Cities, Better Lives*, Routledge is also publishing *The Planning Imagination*:

Peter Hall and the Study of Urban and Regional Planning, a Festschrift produced by Hall's colleagues and friends to commemorate his lifetime achievements. Mark Tewdwr-Jones, Nicholas Phelps, and Robert Freestone have brought together in five themes a series of critical reflections on Hall's vast and diverse contributions over the past half-century, covering the history of cities and planning; London; spatial planning; connectivity and mobility; and urban globalisation.

Finally, in the sixth and final part of *The Planning Imagination*, the editors have asked Sir Peter Hall to reflect on his own career and the sources of his imagination. Combined with the editors' coverage, this new book reflects Hall's own evolution as well as that of his planning ideas.

STADIUM

New National Stadium of Japan for Olympic and Paralympic Games 2020

International Olympic Committee president Jacques Rogge has announced Tokyo will host the Summer Olympic and Paralympic Games.

Jacques Rogge said: "Tokyo prevailed on the excellent quality of a very well-constructed bid."

The announcement confirms the New National Stadium of Japan by **Zaha Hadid Architects** will host the athletics events as well as the opening and closing ceremonies of the Tokyo 2020 Olympic and Paralympic Games.

Zaha Hadid said: "Our many congratulations to the Tokyo 2020 team, the Japan Sport Council, everyone in Tokyo and all across Japan. The public's support has been remarkable and we are very proud to be part of the Tokyo 2020 Olympic and Paralympic Games. We have put together an excellent team to deliver a magnificent venue on schedule for the



2019 Rugby World Cup and Tokyo Olympic Games the following year."

Visit adf-news.blogspot.co.uk and enter reference number **12466** to view more information.

CGI of Zaha Hadid Architects designed National Stadium of Japan

Census 2011 reveals inadequate housing supply and affordability crisis

The first analysis of the Census 2011 and its impact on household formation has been published today by leading housing and planning charity, the **Town and Country Planning Association (TCPA)** and shows that the scale of housing need and demand continues to significantly outstrip supply. The report, *New estimates of housing demand and need in England, 2011 to 2031*, by the renowned housing academic, Dr Alan Holmans, from the Cambridge Centre for Housing and Planning Research at Cambridge University, shows that housing requirements are on average around 240,000 – 245,000 per year, with around 60 per cent of all demand and need in the four southern regions. This is up to 10,000 more homes per year than the generally used 235,000 figure; while house building levels are slowing rising from their lowest levels since the 1920s, at around 100,000 per year.

Visit adf-news.blogspot.co.uk and enter reference number **60242** to view more information.

news bytes

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

Restaurant & Bar Design Awards winners announced...
Ref: 19371

The Leys School Cambridge unveils new £9.5 million science and arts building...
Ref: 70807

Design team appointed to deliver £21.9 million Camden school works programme...
Ref: 78255

Broadway Malayan-designed 17-hectare mega healthcare city launched in Singapore...
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enq.104





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enq.105



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enq.106

SUBJECT

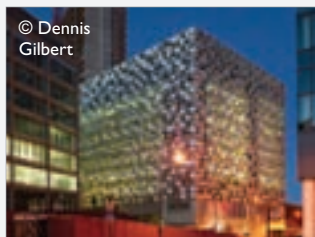
World's coolest car park revealed

A car park in Miami has been announced as the world's coolest, shrugging off rivals from across the globe in a competitive new design awards. The car park, 1111 Lincoln Road, Miami, in the US was praised for its "bold, innovative and striking design" by the judges' panel.



© Hufton + Crow

It was also good news for UK with Charles Street in Sheffield being awarded third place and Millennium Point in Birmingham also making the top ten of the global list.



© Dennis Gilbert

Developed by parking company www.StressFreeAirportParking.com, in partnership with the respected design titles DesignCurial & FX magazine, the new awards celebrate creativity and design in buildings often perceived as dull and dreary.

1111 Lincoln Road, designed by Herzog & de Meuron, was completed in 2010 and has been described as resembling a house of cards. The structure's impressive design embraces the community by providing public spaces and shops.



Viking House office to residential conversion

In the last year Coupdeville Architects have started work on Viking House, a disused office block which is being converted into a contemporary residential housing block with a mixture of 64 one- to three-bedroom flats and penthouse units. This is following the government's new policy earlier this year allowing the conversion of offices to residential without planning permission. The reform is aimed at speeding up the conversion of empty commercial space into desperately needed housing.

The brief was to convert an disused office building into a new residential block. Viking House is 866 sq m and is located in Swalldale Lane, Hemel Hempstead. The project started in October 2012 and is due for completion in the summer of 2015. The cost of the project is approximately £3.8 million.

The new section of the building comprises mostly of a slatted wooden facade with slender vertical elements drawn from the architectural language

of the existing facade. These elements not only offer structural support to the cantilevered design but also lend itself as a visual break to the building, allowing it to be appreciated in smaller segments. The approach behind the use of timber as a cladding system allows the new wing of the building to sit humbly next to the existing building and blends into the wooded landscape in which it sits. The key feature of the new residential block is the circulation tower linking the old existing building to the new extension. The extension on the existing building attempts to not only balance the visual aspects of what was already there, but sits appropriately juxtaposed to what was once an old and under-appreciated building. Drawing on the aesthetic of this 1960s building, the new elevation backing onto the main road reinterprets the architectural language of the existing building and is remade into a new contemporary facade with balconies to the rear of the existing property.

news bytes

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

Living and working with climate change – new research warns of future building meltdown...
Ref: 30500

£150 million investment will help transform UK construction sector...
Ref: 48188

Institution of Structural Engineers survey reveals small business BIM concerns...
Ref: 21255

ISG celebrates milestones at Center Parcs, Woburn Forest...
Ref: 14151



The Sunday Times British Homes Awards 2013 sponsored by Homebase

Shortlist announced!

www.britishhomesawards.co.uk

'By recognising and rewarding schemes and projects which reach the highest standards the British Homes Awards play an important role in championing design excellence.'

Mark Prisk MP,
housing minister



The British Homes Awards have been pivotal in providing a catalyst for change in the creation of our new homes. Praising the 2012 winning and commended homebuilders, developers and their architects, the housing minister, The Rt. Hon. Mark Prisk MP, 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."

Building on this successful legacy and with the support of Britain's most-read quality Sunday newspaper the 2013 Sunday Times British Homes Awards invited entries from home builders, developers, housing associations, architects and interior designers within 13 categories. Shortlisted schemes and projects can be found at:

www.britishhomesawards.co.uk

Celebrate with them!

The Awards will be announced at a luncheon at The London Marriott, Grosvenor Square on 18 October. To reserve your place please visit the website www.britishhomesawards.co.uk

Clockwise from top: The SML Home, winner of last year's Tomorrow's SmartHome competition; Santiago, Tomorrow's Townhouse 2011; and the Barratt Green House, winner of the Home for the Future design competition in 2007





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cpd focus

NATURAL STONE AND MODERN METHODS OF CONSTRUCTION



Standcliffe Stone has the experience and resources to deal with even the most challenging architectural projects in natural stone. Its CPD *Natural Stone and Modern Methods of Construction* provides an understanding of how dimensional stone can be used in traditional and modern architecture. The seminar discusses different fixing options, considers the advantages each option offers, looks at design/build considerations and provides information on time considerations

0845 302 0702
www.standcliffe.com

enq. 108

PUTTING YOU IN CONTROL



Decorative electrical wiring accessories, audio and lighting control manufacturer **Hamilton Litestat** invites architects to take part in its RIBA-approved CPD seminar *Putting You in Control*. The interactive seminar focuses on the environments and uses for lighting controls, applications for lighting systems and an introduction to multi-room audio distribution. The seminar is delivered by Hamilton's experts, who are available to visit workplaces throughout the UK.

01747 860088
www.hamilton-litestat.com

enq. 110

ROOFING SYSTEMS: REDUCING AND MANAGING RISK



For the past 50 years, **Sika Liquid Plastics** has been one of the UK's leading manufacturer of liquid applied waterproofing systems. During that time, it has developed an enviable range of waterproofing membranes and roofing systems for the weatherproof protection of roofs and balconies.

Sika Liquid Plastics is proud to announce, that it has used this expertise and knowledge, to create a new CPD titled: *Roofing Systems: Reducing and Managing Risk*.

The CPD aims to assist architects and specifiers when designing and selecting roofing solutions that:

- Provide levels of required performance and guarantees
- Meet current and predicted legislative requirements
- Reduce the risk of litigation and associated consequences

The Presentation details the typical challenges and risks that a client would expect from a roofing system, and also touches on the background of the Sika Group and Liquid Plastics.

The company is pleased to announce that the CPD is officially RIBA approved.

The CPD seminars can be carried out at a time and a place convenient for you and your team.

01772 259781
liquidplastics@uk.sika.com

enq. 111

LIABILITY & LEVER HANDLES – AN INTRODUCTION TO BS 8300 & BS EN 1906



The latest presentation from **HOPPE**, manufacturer of hardware for the architectural and window and door sectors, looks at regulations affecting lever furniture and how standards can help specifiers and architects meet their requirements. Jam packed with informative and enlightening content, the presentation entitled *Liability and Lever Handles – an introduction to BS 8300 and BS EN 1906* includes ways in which to limit liability when specifying lever furniture.

01902 484 400
www.hoppe.co.uk

enq. 109

BIM: ALUMINIUM FAÇADE SYSTEMS – MODELLING, DESIGN, CONSTRUCTION, STANDARDS AND COLLABORATION



The **AluK (GB) Ltd** CPD, *BIM: Aluminium Façade Systems – modelling, design, construction, standards and collaboration*, has been RIBA accredited. AluK's BIM CPD leads the way in the development of innovative solutions. By 2016, all government funded projects will have to implement BIM. The AluK CPD presentation will give further insight into what this will mean for the way we design, construct and manage projects.

01633 81 04 40
projects@aluk.co.uk

enq. 112

CABINCO LAUNCH CPD MODULES IN SOLID TIMBER CONSTRUCTION



Solid timber construction company **Cabinco** offers specifiers opportunities for merging the benefits of both sustainable construction and off-site manufacture to provide, rapid, sustainable & economic construction to suit current market criteria. The objective of the first module in this series delivers a clearer understanding of the types of timber construction that are available. This module is available online with an estimated one hour value per session.

Follow up modules include machine profile log construction, which details the specific advantages and limitations of this construction style to enable a greater understanding of when this build system is best used and experience of using it within the education market.

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A combined presentation/seminar given by timber construction/timber experts with over 30 years' experience in the field is also available by appointment.

01600 719218
www.cabinco.co.uk

enq. 113

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AN INTRODUCTION TO ELECTROCHROMIC GLAZING: DYNAMIC CONTROL OF SOLAR HEAT GAIN AND GLARE



The ways in which electronically tintable glass can improve building energy performance, enable more sustainable building design and construction, and create a more comfortable environment for occupants are outlined in a new RIBA approved CPD seminar by **GLASSOLUTIONS**. *An introduction to Electrochromic Glazing: Dynamic Control of Solar Heat Gain and Glare* explains the sustainability and performance benefits.

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

enq. 114

SPECIFYING RETRACTABLE SEATING



Audience Systems is offering a new CPD seminar, covering the numerous considerations for specifiers of retractable seating systems. The seminar gives attendees a thorough grounding in the practicalities, including system dimensions and capacity estimation, relevant strength and safety standards, wheelchair provision, functional and operational options, aesthetic options, acoustic implications and building interface considerations including floor design, storage area design, and system access.

01373 865050
www.audiencesystems.com

enq. 116

FREE CPD GUIDE TO VENTILATION AVAILABLE FROM MITSUBISHI ELECTRIC



Mitsubishi Electric's new CPD certified guide illustrates how effective ventilation can help both the wellbeing of occupants and overall building efficiency. A good ventilation system is at the heart of many aspects of occupant health and comfort. As well as providing a healthy atmosphere it also contributes to the heating and cooling of the building. Getting it right is therefore an important step to delivering a 'good' building.

01707 282880
www.heating.mitsubishielectric.co.uk

enq. 115

LRWA CPD SEMINAR



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

0207 448 3859
www.lrwa.org.uk

enq. 117





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enq. 118

editor's focus

Arada

Launched less than a year ago, the overwhelmingly popular EcoburnPlus range of stoves from Aarrow now offers even more to catch your attention – a hugely impressive and net efficiency of 86.3 per cent. Not only is the EcoburnPlus 4 the most efficient stove in the Aarrow range, it's one of the most efficient multi fuel stoves in the UK market today. Each EcoburnPlus stove features Aarrow's innovative new Flexifuel System (patent pending), which offers stove users the flexibility of burning wood or solid fuel without compromising on heat output or efficiencies.

enq. 119



Proludic

There are a number of key elements to designing fun, thoughtful and interesting play spaces and a key factor is creating a space where the equipment integrates successfully with landscape elements. When designing a play area for a client, Proludic understands the need to have all the essential information readily available. It has a full support service, including a design department led by qualified landscape architects, who can provide advice and guidance relating to current industry trends.

enq. 123

Brewer Cows

Brewer Cows is a UK manufacturer and supplier of a large range of bespoke and standard chimney cowl and flue terminals. Whether for ventilation or a beautifully designed wood burning stove – the addition of the correct terminal or cowl ensures efficient functioning of the system. The Stealth Cowl rotates to assist with fluctuating windy conditions and effortlessly produces the best results. Making a statement of its own, the Stealth Cowl is a stylish solution to downdraught chimney problems.

enq. 120



Landy Vent

The Eccostove is an innovative new concept in woodburning technology using silicon carbide to create energy efficient wood combustion, providing whole home heating without plumbing. Eccostove has an 85.3 per cent efficiency rating and still emits 25 per cent of stored heat up to 12 hours after firing. For more information on Eccostove, visit www.eccostove.com

enq. 121

Stainless Handrail Systems

Stainless Handrail Systems Ltd is proud to announce its topless railing system – Infinity – available now! Enhance breath-taking views with the new and innovative Infinity topless railing system. The Infinity topless railing system offers strength, style and versatility, while eliminating the upper and lower rails. In turn, providing your clients with unobstructed million-pound views. An Infinity topless railing system is the ultimate fashion statement for a deck.

enq. 122

Jetmaster

The 16i inset stove is designed to fit the standard 16" British fireplace opening. With an 86 per cent efficiency, this is on of the UK's most efficient inset stoves (compare with HETAS Guide 2013). With it's 3.6 kW output, the 16i is perfect for new builds and modest homes. The high-efficiency wood and multi-fuel convector stove is Defra approved for burning wood in smoke controlled areas as well as precision engineered in Britain for British homes. Jetmaster stands by the quality of its work giving the 16i a five-year guarantee.

enq. 124

Ampteam

Advanced Roofing Services, Unifold Approved Contractors, renovated the roofs of the Safehouse Storage units, Tottenham, to increase insulation levels to current standards. It installed Unifold to prevent further water ingress from leaking gutters and increase the capacity of the existing systems. Following the success of the initial installation of Unifold gutter, Safehouse Storage Management proceeded with phases 2 and 3, which included installing hundreds of metres more Unifold gutter and solved leaking problems to a wide gutter that had previously been lined with a bituminous felt treatment.

enq. 125



CVO Fire

CVO Fire has developed a new range of high efficiency gas fires. These energy saving fires have Class 1 SAP efficiency ratings of over 75 per cent and feature unique CVO burner technology. The range includes both inset style fires for use in traditional fireplaces and contemporary 'hole in the wall' versions. Some fires feature fully sequential remote control with thermostatic control to automatically adjust the heat output within the room and maximise energy saving performance and comfort. Fires are designed to fit any chimney system C1, C2 or precast and do not require any additional room ventilation.

enq. 128



Panel Systems

A desire by homeowners to reduce their fuel bills and make their homes more energy efficient has led to an increase in demand for Styroloft loft boards from Panel Systems. According to the Energy Saving Trust, nearly a quarter of the heat generated within an un-insulated home is lost through the roof. Adding loft insulation is one of the most effective ways of reducing this heat loss. Styroloft is manufactured from birch plywood bonded to both faces of Styrofoam extruded polystyrene insulation. It is available in thicknesses ranging from 18mm to 115mm and at 50mm it provides 15 times greater energy efficiency than standard 18mm chipboard.

enq. 129

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Alumatherm is one of the slimmest, most authentic sash windows in the UK. With a choice of astragal bars, 36mm super slim meeting rail and choice of either 43mm or 90mm deep bottom rail, Clearview Windows is getting you closer to the authentic look preferred by customers and local planners alike. The design is a culmination of over 50 years' experience in aluminium sash windows and continuous research and development. Perfect for modern new builds, commercial projects, care home and social housing to name a few. Alumatherm... as authentic as it gets.

enq. 126

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enq. 127

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enq. 130



© Martine Hamilton-Knight

The heart of the matter

A constricted site overlooking live hospital wards has given the University of Leicester a new Cardiovascular Research Centre, Mark Smulian reports

When the University of Leicester was offered free land to build a cardiovascular research unit, there was problem. The site was part of Glenfield hospital; it was small and immediately adjacent to wards.

Leicester's medical school has long had an association with Glenfield, in particular for cardiovascular work, although the hospital is some miles from the university's main campus and medical school.

University researchers were keen to proceed, but what could be built in such a constricted space?

To make matters worse, it could not be designed with researchers' windows looking straight at patients in wards, and an emergency entrance for fire vehicles had to be kept open at one side of the site.

The answer was a building of 2,300sq m on four storeys, with a 500sq m plant room on top. Given the nature of cardiovascular research, architect ADP and main building contractor Morgan Sindall had to create a building for academics and research students in which several distinct types of work could be carried out in different conditions.

On the ground floor is a 'biobank'. The centrepiece is a machine that looks a little like a giant bank safe in which blood samples from hospital patients are stored, with their consent. Samples can be kept from up to 100,000 individuals, all anonymised. Above that is a floor of conventional laboratories used for various experiments and analysis.

The second floor comprises staff offices and meeting rooms, and then the really clever stuff is on the third floor, where computers take the blood samples and analyse them right down to their DNA.

Only specialists understand what happens on the third floor in detail, and indeed the whole field of cardiovascular research



© Martine Hamilton-Knight

'It is an international facility and if people are coming from all over the world we wanted it to look like they have arrived somewhere special.'

Ian James,
project manager, ADP

The frontage appropriately boasts a sculpture of a heart (opposite); The saw tooth window arrangement admits light while preventing hospital wards being overlooked by researchers (left)

is sufficiently esoteric to be beyond the experience of most architects and projects managers.

Guided by the requirements of the academics who would use the building, ADP set out to give them what they needed on this highly constricted site.

The building is a concrete frame with brick elements and some curtain walling and solar shading.

ADP's project manager Ian James explains: "We spent a lot of time working with the professors on what they wanted to have there and in getting right the relationship between different laboratories, offices and research areas, so it took a lot of coordination.

"The building slots into quite a confined space as there is a route into the hospital alongside which had to be kept free and operational throughout the construction phase, so we had to squeeze around that."

This was done by building the research centre so that it

almost joins the existing hospital – indeed there are mere centimetres between the two buildings' walls at some points. Two fixed links are provided so that staff can pass from the new research centre to part of the hospital already in use by the university for cardiac and respiratory work.

James says: "There was an issue with views into live wards, so it is designed with windows at an angle so that the researchers get light but cannot see into where the patients are.

"Construction noise issues were quite challenging on a live hospital site, and it was quite tricky. There was nothing unusual in the ground conditions though."

One striking thing about the centre is that it looks nothing like any of the adjacent buildings. Not even Glenfield hospital's warmest admirers would find much to comment on in the non-descript brick structures that make up the bulk of its premises.

The cardiovascular research centre though was designed to stand out. University project manager Pete Bale says:

Continued overleaf...



“The building was designed to make a statement and deliberately not to blend in. The hospital is red brick but we are blue and white.

“It is an international facility and if people are coming from all over the world we wanted it to look like they have arrived somewhere special. Because of that we got the planners to agree to a four-storey building on an otherwise two-storey site.”

A key issue in any new building nowadays is its energy performance. While the techniques needed to make a building energy efficient are well known, the nature of cardiovascular research again presented a problem – laboratories need air conditioning and refrigeration or the materials in them will be damaged. There is no way round this.

The building’s form and orientation were chosen to benefit from natural daylight balanced with achieving useful solar gain without overheating.

James says: “The insitu concrete frame was chosen for its thermal mass properties. It also assists with the air tightness of the building as the fabric junctions to the super structure are

simplified in comparison with a steel frame.”

The building takes advantage of night cooling to purge excess heat and cool the building fabric.

“A building with sufficient thermal mass, which can be exposed to night time ventilation, can reduce peak daytime temperatures,” he says.

“Night cooling offered the potential to minimise the use of mechanical cooling and improve the internal conditions to the naturally ventilated office spaces.”

There are significant elements of exposed mass to help regulate the internal temperature and minimise the need for refrigerated cooling. Exposed concrete was employed to absorb heat generated by occupants, equipment, lighting and through solar gain during the day.

The building has gained BREEAM Excellent status, but Bale feels the BREEAM programme’s criteria are ill-suited to the design of buildings to be used for science.

“You cannot really do BREEAM for laboratories,” he says. “The building has an Excellent rating but you cannot really get

‘The building has an Excellent rating but you cannot really get to Outstanding for a science building because of the conditions needed. Laboratories have to have air conditioning.’

Ian James,
project manager, ADP

Continued on page 25...



© Martine Hamilton-Knight

The complete centre stands out clearly from the surrounding hospital buildings

Forbo's Sarlon vinyl is a sound choice for Alsop High School



As part of a major development project at Alsop High School in Liverpool, the new ground floor corridors and canteen area have been fitted with Forbo's Sarlon Canyon vinyl, delivering 15dB impact sound reduction, excellent indentation resistance and an R10 slip resistance rating.

Architects at 20/20 Liverpool specified the versatile and subtle tonal design – particularly popular in the education sector – from Forbo's new BREEAM A/A+ rated Sarlon acoustic flooring collection.

Marmoleum was specified as the main flooring component for upper levels of the building, providing a hard wearing, resilient and cost effective flooring solution, which is also helping to meet demanding sustainability targets. Forbo's Safestep R12 was installed in the kitchen to protect staff from slip hazards associated with spillages.

Safer Osmani, business manager at Alsop High School, said: "The school redevelopment project has created a fantastic new learning environment for our students that we are really proud of.

"The focus throughout the project was on creating a high quality facility with a forward-looking interior and the smart flooring products from Forbo have certainly helped us achieve this."

enq.131

An education in flooring



Tarkett has used its century of experience manufacturing Linoleum floors to produce a new range of colourful flooring ideal for use in the education sector. The Linoleum xf2 range introduces 47 new colours to Tarkett's education flooring portfolio that already includes LVT, sports flooring, safety, homogeneous and heterogeneous vinyl sheet and tile products. Tarkett hopes the broad range of colours and options available will encourage installers, architects and designers to be more creative when selecting flooring for educational buildings. With colour ranges varying from natural stone greys through to grass greens, raspberry reds and bright, bold yellows and blues – ideal for creating floors with impact. Tarkett marketing manager Steve Urwin said: "As one of the few global manufacturers of genuine linoleum we're passionate about this product. The variety of colours available is enormous and I'm looking forward to seeing some of the interesting and creative designs that are produced as a result. It's also incredibly sustainable. We've considered its environmental impact from production through to cleaning." During manufacture 95 per cent of the product scraps and all water needed for production are recycled. Tarkett then applies its xf2 surface treatment to the flooring making it easier to clean for the end user. This means Linoleum xf2 requires less maintenance and reduces the use of harmful cleaning products.

enq.132



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enq.134



The research centre takes shape close by existing hospital buildings (opposite); researchers work in the new laboratories (left); staff gather to discuss work in the 'Café Cardiologique' lounge (bottom)

'Many people know someone who has had heart disease and when we appealed to the public and former students for donations they came in from a fiver up to hundreds of thousands of pounds.'

Pete Bale, University project manager

to Outstanding for a science building because of the conditions needed. Laboratories have to have air conditioning."

In the plant room, an arsenal of equipment works to give each floor of the building the heat or cold that it needs. There is both gas heating and a gas combined heat and power facility, together with chillers. These all work together to deliver the temperatures needed in different part of the building, with air treated appropriately as it reaches each floor.

The CHP machine uses 204kW of gas input to generate some 105kW of waste heat to drive the absorption chiller, and some 70kWe of electricity. Louvre windows on the staircases let in fresh air and can be closed by sliding panels in cold weather.

The staircase is mainly intended for emergency use but, as Bale says: "Obviously in a cardiovascular building you encourage people to take exercise!"

Only limited air comes in from the office and laboratory windows. Where these face into hospital wards they are design to let in light but are opaque, with only the narrow west facing windows next to each of them made from conventional glass.

"The saw tooth design means windows to wards let in light but cannot be seen through, as the adjacent live wards meant we had privacy and dignity issues with patients there to juggle," Bale says.

"The whole work programme had to be designed so as not to disrupt the hospital. I was worried about the piling in particular, since pile drivers are hardly the quietest things, but it proved not to be a problem."

The building is fully accessible to people with disabilities with a Disability Discrimination Act compliant lift to all floors and disabled toilets located on each floor.

Cardiovascular researchers are pleased with their new facility. Departmental head Professor Nilesh Samani says: "The

new Cardiovascular Research Centre provides us with an outstanding facility to undertake research into heart disease.

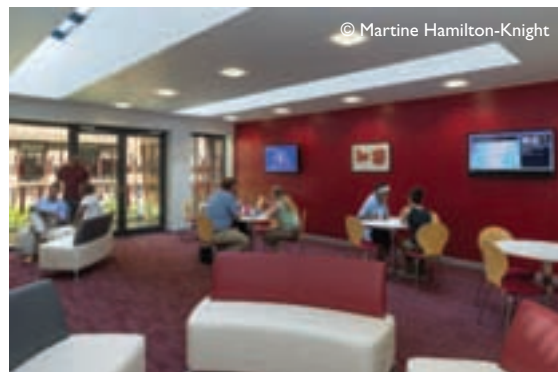
"From a working perspective, the building has been constructed to allow maximum interaction between staff to provide a highly productive and creative environment."

One unusual aspect of the building was the financing. When visiting it is noticeable that even the smallest meeting rooms are named after a different benefactor.

Bale says: "The NHS gave us the land but did not put in money. The university and donations paid the £12.6 million cost, of which about £6 million was the construction cost and within that about 25 per cent went on plant.

"Many people know someone who has had heart disease and when we appealed to the public and former students for donations they came in from a fiver up to hundreds of thousands of pounds."

Scientists using the biobank, computers and laboratories may even now be devising some cures.



Client:
University of Leicester

Architect: ADP

Main contractor:
Morgan Sindall

Mechanical and electrical contractor:
CPW

Structural engineer:
CCE

Quantity surveyor:
MDA

Client project manager: DBK

Planning and building control authority:
Leicester City Council

Diocesan Education Centre, Wiltshire



Alu-Timber and its approved fabricator, Alliance Design Services, worked on a new build Diocesan Education Centre in Wilton, Wiltshire. As well as offering training and resources to those who work with children and the young in schools and parishes, the centre will also be available to external

agencies for hire. Design freedom and solutions to modern environmental issues are a complex requirement. Alu-Timber EFT is a 60mm aluminium/timber curtain walling system which offers Capped, two sided Structural Glazing with vertical or horizontal capping and four sided Structural Glazing. Alu-Timber EFT provides internal thermally efficient Larch timber.

020 8685 9685 www.alutimber.co.uk

enq.135

Levolux tackles light, heat and sound



The recently completed, award-winning £30 million Hadyn Ellis Building at Cardiff University creates the ideal environment for world-leading scientific research teams to make progress, thanks to the inclusion of a multi-purpose Solar Shading solution, courtesy of **Levolux**. Designed by IBI Nightingale to achieve a BREEAM 'excellent' rating, the five-storey building is packed full of state-of-the-art, energy-

saving technology. Levolux was approached at an early stage in the project to design, manufacture, supply and install a custom solution for the Hadyn Ellis building. This comprised its Infiniti Fin system, Aerofoil Fins, Acoustic Fins and Ventilation Louvres.

enq.137

Door closer safety in education sector



The Powermatic®, from **Samuel Heath**, controlled, concealed door closer is ideally suited to the education sector. Its fire performance credentials, maintenance-free service and enhanced aesthetics are undoubtedly attractive. The door closer reduces risk in two key areas; vandalism and self-harm. Being

totally invisible when the door is closed, Powermatic® is less likely to be vandalised, thereby reducing maintenance costs and, more importantly, reducing the risk of a fire door being rendered ineffective by a damaged door closer.

0121 7664200 www.perko-powermatic.co.uk

enq.139

Expona doubles up on innovation

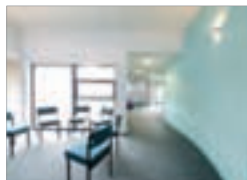


Expona, **Polyflor's** world renowned Luxury Vinyl Tile brand has been dramatically re-launched! With a 20 year history and global sales of over 35 million square metres, Expona is widely regarded and respected across the world. In the most exciting development in LVT for quite some time, the new Expona offer is formed of two design focussed collections across two specifications.

Expona Design PUR incorporates a 3.0mm gauge and 0.7mm wear layer, where as Expona Commercial PUR features a 2.5mm gauge and a 0.55mm wear layer. Mirroring the beauty of natural materials, each product has been developed alongside a team of global designers.

enq.141

Supacord for new school



A new centre for pupils on the autism spectrum at a school in Bedfordshire has been hailed as exemplary and praised by experts in Special Educational Needs (SEN) for its innovative design, which uses colourful carpets from **Heckmondwike FB** to meet the special visual and spatial needs of its pupils. The new Nightingale

Centre, which has become part of the specialist provision for autistic pupils at Mark Rutherford secondary school, features 240m² of Supacord fibre bonded carpet. The carpet was specified by Mark Ellerby Architects in two carefully selected colours to create a calming, yet visually interesting, floor design. The school has achieved a BREEAM Very Good rating thanks in part to the use of Supacord.

enq.136

Introducing R schools from Rollalong



The LGA has recently expressed concern over the increase in pupil spaces required in the next couple of years. Some local authorities will face a 20 per cent shortfall in places by 2015. This doesn't leave local authorities and academies much time to address this increase in demand and provide additional classroom

accommodation or new schools. R-Schools is a new team from an established provider. **Rollalong** has the capability to deliver new schools and school extensions by using their combination of traditional in-situ building techniques and off-site manufacturing capability. R-Schools achieves BREEAM 'Very Good'.

01202 824541 www.rollalong.co.uk

enq.138

Enveloping with light



This stunning space was designed by LSI architects as part of their work at INTO University of East Anglia. It is a dramatic example of how the unique Kalwall® translucent system diffuses daylight through walls or roofs to create the ideal ambience for study, learning and leisure in colleges and schools. U values as low as 0.28W/m²K,

equivalent to a solid wall or roof, can be achieved by including translucent aerogel insulation within the panels. Kalwall, distributed by **Structura**, is the most highly insulating diffuse light transmitting system available and is widely specified for enveloping every type of building. It can be bespoke or available in self-supporting barrel and low profile vaults and self-supporting ridge roofs.

enq.140

Gordonstoun School's Grundfos upgrade



Gordonstoun School is one of the most famous independent public schools where its alumnus includes three generations of the Royal family. With a desire to improve energy efficiency and reduce carbon footprint, Gordonstoun appointed **HWEnergy**, a biomass heat specialist, to deliver the best

solution. **HWEnergy** in turn collaborated with **Grundfos Pumps** to deliver the bespoke pump solution. Now fully operational the new pump solution combines a range of ultra-efficient members of the award winning Grundfos MAGNA circulator pump family.

01525 850000 www.grundfos.co.uk

enq.142

Endless design opportunities



Resin bound paving not only delivers a beautiful and durable surface, but also provides architects and designers with great design flexibility.

SureSet, one of the UK's leading specialists of resin bound paving, offers a wide colour palette to select from as well as an enormous selection of aggregates, which combine to provide almost limitless design possibilities. From vibrant shades of red and blue to the more mellow hues of natural golden brown and subtle grey, resin bound paving can provide the answer to almost any design challenge.

This wide range of colours and textures allows schemes either to blend in with surrounding materials or to provide a sharp contrast – the final solution depending on the creative vision of the designer. Resin bound paving has proved to be the

perfect design solution for an extensive range of projects across the world. From schools, medical centres, bridges and hospitals, to private homes and pedestrianised areas, the product has brought life and colour to landscape schemes of all shapes, sizes and complexities.

For commercial applications, resin bound paving gives designers the opportunity to create intricate and detailed designs within the surface. Whether this be a corporate logo, a welcome message to visitors or a school emblem, the material can be used to create a perfect, colour-matched representation of virtually any subject, providing a unique design signature to any project.

Some manufacturers in the UK, such as SureSet, are able to offer solutions for both exterior and interior applications – allowing designers to continue their design theme from the outside right through to the inside of a building. By applying a colourless sealant, the resin bound flooring can also be used in areas that require a completely water resistant solution.

Performance is not sacrificed for the sake of design. Whether used internally or externally, resin bound paving provides a beautiful and hard wearing surface that will give many years service and requires virtually no maintenance. Resistant to cracks, oil, UV light and frost damage, the integrity of the resin bound surface remains intact, preventing stones from becoming loose and weeds from growing through.

SureSet can offer technical and design advice and, if required, can produce specific colours to match particular project requirements.

'Whether a corporate logo, a welcome message to visitors or a school emblem, the material can be used to create a perfect, colour-matched representation of virtually any subject'



Emblem of Dulwich School, London

Contact Sureset for a free brochure, sample and quotation today 0800 612 5637, email contact@sureset.co.uk or visit the website www.sureset.co.uk



Playground incorporating SureSet and Playtop surfacing (top left); paving designed by the children at Hampshire Infant School (left)

enq.143

Brett Landscaping paving design



Brett Landscaping has used its creative expertise to produce an aesthetically-pleasing, cost-effective paving design that provides a cohesive identity for a refurbished healthcare and education complex in Surbiton. The new development, which comprises Surbiton Health Centre and Lime Tree Primary School, is situated on the grounds of an old hospital. Brett was contacted by the site contractors to enhance the revamped facilities in a way that took into account the site's sustainable needs

and made best use of the available site space. Brett Landscaping recommended a combination of Alpha Flow and Omega Flow permeable paving, complemented with decorative kerbs and Yorktone flag paving.

enq. 144

ISO-Chemie tape seals it



ISO-Chemie's high performance expanding foam sealing tape has been specified for an innovative low carbon technology college in Bath. The ISO BLOCO One tape has been specified to provide a high performance airtight, acoustic and thermal interior and exterior seal between the ModCell® straw-filled,

cassette-style prefabricated panels used in the construction of the new two storey 1,200 sq m Nucleus building teaching block at the Hayesfield Girls' School. ModCell® has been used to build the super-insulated structure to the highest ecological standards using thermally efficient, 48cm thick, prefabricated straw bale wall panels.

enq. 146



Fireco's DMS as fire safety system of choice

Further education college, Stockton Riverside College has chosen leading fire safety provider, **Fireco** as their fire safety system of choice, with the installation of its Deaf Message Service (DMS). The College's health and safety team was looking for a fire safety system that could help alert students and staff with impaired hearing to be notified if a fire alarm went off on the campus. They had previously used a deaf pager system which was linked to the college's fire alarm but this had ceased to function and they were looking for a system which had higher user capacity and was discreet and suited its students' modern lifestyles. Fireco's Deaf Message Service (DMS) was the ideal solution. Allowing a deaf or person with impaired hearing to receive text messages alerting them to any fire alarms, the system brings the students and staff at Stockton Riverside a discreet way of dealing with fire alarms.

0845 241 7474 www.fireco ltd.co.uk

enq. 148

Efficiency boost for Uni ring main system



University College London has installed an innovative new boiler plant in its Torrington Place Building. The boiler house, supplied by **Atlantic Boilers of Lancashire**, operates throughout the year at 95°C flow and 75°C return, and contributes to the UCL ring main that serves scores of buildings, large and small. Normally these ring main temperatures do not allow condensing, but the Atlantic RT add-on condensing exchanger leads to year round efficiencies of 92-97 per

cent GCV (102-107 per cent NCV). To maintain this, three Atlantic TRP 3-pass gas-fired boilers, rated at 700kW, pass the flue gases into the RT add-on where the gases are cooled by the combustion air volume to give condensing conditions. The warmed combustion air increases the efficiency of each burner.

enq. 145

Metrotile has educational buildings covered



Metrotile Lightweight Roofing can be found on many of the UK's educational buildings, refurbished or newly-built. From the multiple campuses at the Priory Academies in Lincoln to the Photovoltaic science block roof at Southport College. As an evolution of traditional roofing materials, Metrotile roofing offers the aesthetics you expect

from a roof material with a vast array of benefits the greatly outnumber those expected from other roofing products.

01249 658514 www.metrotile.co.uk

enq. 147



New life to university campus roof

Kemper System has helped Anglia Ruskin University transform a former office block into a prestigious faculty building thanks to its Stratex warm roof and Kemperol V210 cold liquid-applied waterproofing systems. The University's projects team opted for a warm roof and specified Kemper's Stratex system to upgrade the building's thermal performance while providing a durable waterproof solution. The installation team laid a Kempershield vapour control layer on all three roofs before beginning installation of Kemper System's Kempertherm insulation board. Although Kemperol V210 is impervious to standing water, a tapered insulation board was chosen to create a slight pitch on the existing flat roofs to help with water drainage and, once this had been primed, the installation team applied the Kemperol V210 liquid membrane. Laid in a single process, the V210 resin saturates a tear-resistant reinforcement fleece and cures to provide a seamless monolithic membrane that is permanently elastic, tough, UV resistant, and doesn't require any additional protective layers.

019 254 45532 www.kemper system.co.uk

enq. 149

SE Controls helps create a stimulating learning environment at Passmores Academy

Passmores Academy in Harlow is using a natural ventilation system from SE Controls, to provide a comfortable and stimulating learning environment for pupils while helping to reduce the school's carbon footprint.

Designed by Jestico & Whiles and constructed by Wilmott Dixon, the £23 million school provides places for 1,200 students and uses an innovative design where five arms radiate from a 2.5 storey elliptical atrium 'hub', allowing access to the flexible teaching facilities and recreation areas from the common central area.

A range of low impact design features and sustainable technologies have been incorporated in the BREEAM Very Good rated school, including solar shading, biomass boilers and energy efficient glazing together with the use of a natural ventilation strategy to improve and manage indoor air quality, reducing the need for mechanical cooling.

To provide the level of control and flexibility required for the school's natural ventilation system



to operate effectively within the pre-defined set points, SE Controls supplied and installed 7 OS2 control panels to operate the rooflights, atrium louvres and entrance screens.

In addition, the company also supplied and installed the rooflight and window actuators through specialist glazing contractor, English Architectural Glazing and were responsible for commissioning the complete natural ventilation system, which is interfaced with the school's building management and fire safety system.

Darren Wainwright, SE Controls' project

manager, explained: "Indoor air quality in schools is a vital consideration as it not only manages the temperature within the building, but more importantly, the level of carbon dioxide present, which has been proven to reduce learning ability if it exceeds pre-defined national guidelines. Even the classrooms have CO₂ monitors fitted so that the level can be monitored and the windows manually opened, if required."

He added: "By incorporating natural ventilation and linking our control panels to the BMS, Passmores Academy can not only ensure that the air quality and environment is effectively managed but also that the energy costs are kept in check."

enq.150

Contact SE Controls today 01543 443060
or email info@secontrols.com
Visit the website www.secontrols.com

RigiSystems LokFold's eye-catching display



RigiSystems LokFold standing seam has been used to stunning effect on the new learning centre at Notre Dame Catholic College in Liverpool. All the walls have been clad in 0.9mm aluminium LokFold in a PVDF finish in luminous Moonstone Blue and Gold. The result is a kind of

living wall effect that changes colour when moving around the building and with changing light conditions. Around 1,500 sq m of LokFold were used in three different cover widths to enhance the dramatic visual impact of the project. RigiSystems Ziplok was also used on the roof of the new centre, which houses state of the art science, computer and design spaces.

01905 750500 www.rigisystems.org

enq.151

Aperam stainless steel church transformation



For the £5 million restoration of Grade II listed St Barnabas Church Erdington architects Brownhill Hayward Brown specified a standing seam system across the entire span using Aperam Uginox and Ugitop stainless steel. Uginox takes on the matt grey appearance and traditional aesthetic of aged lead

sheet through natural patination and is approved by English heritage for use where lead theft is a risk. A sweeping stainless steel roof 'fuses' a modern glass-fronted extension with the extensively restored Victorian structure providing a modern twist in the creation of a place of worship fit for the 21st century.

01246 571660 www.aperam.com

enq.152

Safe access for staff at Bradfield College



Kee Systems, a leading supplier of Kee Klamp® fittings, has provided Bradfield College in Berkshire with a permanent safety solution to allow staff members to safely access the roof and eliminate any possibility of slips, trips and falls. Kee Systems was invited to the college to advise on the most

appropriate cost-effective safety solution. To ensure safety under foot, a Kee Walk® traversing modular walkway was also specified to reduce the risk of staff slipping, tripping or falling when accessing the chiller room. As an off-the-shelf, modular system which can be easily adapted to a wide range of different roof types, pitches and configurations, Kee Walk® is much easier to install and more cost-effective than other walkway systems currently available on the market.

enq.153

Black Watch Museum extension



The A. Proctor Group's Roofshield breather membrane has been specified and supplied to the Black Watch Museum at Balhousie Castle in Perth, which recently underwent a £3 million revamp and re-opened on the 25 June. Roofshield is recognised by NHBC as no ordinary breathable roofing membrane. Roofshield's unique vapour and air permeability characteristics, allow even

the most complex of pitched roofs to breathe – without the need of traditional air gaps or fiddly, secondary venting products. Roofshield is as easy to apply as traditional roofing felt.

01250 872261 www.proctorgroup.com

enq.154

Heritage in decline

The conservation, restoration and refurbishment sector is struggling in the face of public spending cuts, reduced funding from banks and heritage trusts and foundations and a dearth of skills. Stephen Cousins reports



The loss of conservation officers at local authorities in England and Wales is increasing at a worrying pace. According to a report carried out by the Institute of Historic Building Conservation (IHBC), conservation staff dropped by 4 per cent in 2012, contributing to a cumulative loss of 33 per cent since 2006, a situation that has led some to question councils' ability to cope.

"If this loss continues at this pace for 20 years there will be no conservation officers left in England," said Fiona Newton, projects officer at the IHBC. "We are already in a position where more than a quarter of local authorities have no conservation officer or, at best, have very limited part time advice. The scale of the cutbacks identified in this research means that we really must question the capacity of many local authorities to meet their statutory conservation duties."

Completed restoration work on the chancel of Oxford St Mary's church, designed by Caroe Architecture and funded by a mix of donors including the HLF, Oxford University and Oriel College

The figures are the latest bad news for a sector that depends largely on public and private sector grants and support, but which has seen these dwindle since the onset of the recession in 2008/2009.

English Heritage (EH), a major heritage funder and steward of over 400 significant historical and archaeological sites, had its government grant slashed by 32 per cent in 2010 as a result of the Comprehensive Spending Review, which forced it to reduce staff by 200 and suspend various programmes. And during 2015/16 its funding will be cut by a further 10 per cent year on year.

Financial troubles have caused the collapse of several large heritage contractors including Linford Restoration, Quibell, Quarmby and Bowmans, with corresponding impacts to their supply chains and specialist firms.



And where previously developers might have repaired or refurbished a building knowing they could sell it and recoup their costs, from 2007 to 2012 the 'conservation deficit' (the shortfall between the cost of repairs and the money an owner could expect to recoup from the market value of a repaired property) rose from £330 million to £423 million, with the average deficit per site rising from £267,000 to £366,000, according to figures from EH.

That means that just 13 per cent of the Grade I and II* buildings on EH's Heritage At Risk Register are considered to be economic to repair, highlighting the level of public subsidy needed if the UK's ancient castles, dilapidated country houses and neglected archives are not to vanish forever.

Despite these setbacks, it is not all bad news for the sector and many funding gaps are being plugged by the Heritage

Lottery Fund (HLF), which has taken charge of a huge £375 million of grant fund for 2013/2014. That's more than double the £180 million it had available in 2008/2009 and due largely to increased National Lottery ticket sales and the return of funds previously diverted to help pay for the London 2012 Olympics.

"[In funding terms] there's an interesting mixed picture out there," said Oliver Caroe, director at conservation heritage and listed building architects Caroe Architecture. "English Heritage has taken two huge budget cuts and while they are definitely still in the game, there is uncertainty about how much and where they will put their money. For example, they no longer fund Cathedrals and major churches, which means certain projects are suffering, and are in the process of being transformed into a charity. Conversely, the HLF are in rude health and to

Continued overleaf..

'[English Heritage] no longer fund Cathedrals and major churches, which means certain projects are suffering...'

Oliver Caroe, director at conservation heritage and listed building architects Caroe Architecture

**BUILDING
PROJECTS**

'With fewer sources of funding available, architects are under increasing pressure to put together a convincing case for their projects.'



© Norfolk Broads Authority

Heritage construction skills are in short supply

The Royal Botanic Gardens in Kew has secured a Heritage Lottery Fund grant of £14.7 million for the restoration of the historic Temperate House



© Royal Botanic Gardens, Kew

some extent holding up the conservation construction sector, funding historic buildings, repairs and capital works and maintaining a strong focus on project benefits to people and communities, which is excellent," he says.

Given reduced levels of public and private sector financing, the HLF has seen an increase in the percentage of funding sought by applicants. On non-capital projects, where typically other funding sources are less readily available, the average request is for 85 per cent of project costs, up from 69 per cent in pre-credit crunch 2007/2008. Meanwhile, average HLF grant request on capital-focused projects is for 63 per cent of costs, up from 59 per cent in 2007/2008.

The onset of the recession has seen many heritage projects either mothballed or delayed.

In an effort to help get projects off the ground, in November 2010 the HLF reduced its matched funding requirements for projects from a minimum 25 per cent contribution to project costs, to as little as 5 per cent for grant requests of up to £1 million and 10 per cent for grant requests of over £1 million, also introducing a more flexible approach to grant increases when live projects hit trouble.

"There is money available but the problem clients have is getting matched funding because there are fewer sources of this available," says Fiona Newton at IHBC. "Five to ten years ago, projects were eligible for EU funding or from the, now defunct, Regional Development Agency, but not any more. It's also rarer for councils to distribute funding due to the cuts they have suffered, all of which means that even if clients are able to gain the bulk of the money via an HLF grant, it is much harder to raise the remainder."

Funds from private donors and sources of 'corporate giving' have also been hit hard by the recession, a problem that is being felt by the likes of St Pauls Cathedral in London, which until recently had generous support from the City.

On smaller projects, the sums of money required to kickstart a project might appear triflingly little, but are still very difficult to acquire. Caroe points to the lack of what he calls 'seedcorn' funding, i.e. the small amount of money needed to get a project off the ground and into a position where it can put in a major funding application. "We are involved in project for Workstop Priory, a Grade I listed building in a socially deprived area that desperately needs help. The project could do so much for the community and in most respects it has got 'fund me' written all over it, but the Trust running it doesn't have the £6,500 needed to complete a mini feasibility study on the use of the building. This type of problem I have seen occurring across the board," he says.

With fewer sources of funding available, architects are under increasing pressure to put together a convincing case for their



© Portico Marketing

'With the likes of the HLF, proof of matched funding is an issue, as well as proving that the project has a sustainable purpose, they are not going to give money unless it is spent wisely.'

Tony Townend, managing director at restoration contractor William Anelay

projects. Privately-funded trusts, such as the Architectural Heritage Fund, the World Monuments Fund, or the Country Houses Foundation, are very much dependent on the economic cycle and a number of them have had to throttle back their grants and are now more selective about the projects they fund, says Caroe: "It means there is a lot more competition to gain their interest and most of our effort is expended at start of projects trying to get things off the ground financially."

Tony Townend, managing director at restoration contractor William Anelay adds: "Architects tell us there are more boxes to tick before funding is awarded...with the likes of the HLF, proof of matched funding is an issue, as well as proving that the project has a sustainable purpose, they are not going to give money unless it is spent wisely."

Increasing competition for projects has prompted some
Continued overleaf...



© Heritage Lottery Fund

The New Mary Rose Museum led by Wilkinson Eyre Architects (architect) and Pringle Brandon Perkins+Will (architect for the interior), is built around the hull of the historic ship (top); a project to transform Enniskillen Castle into the heritage gateway for Fermanagh, Northern Ireland received an HLF development grant of £111,200 (right)

**BUILDING
PROJECTS**


© Balfour Beatty

Hadlow Tower; a 19th century Gothic Revival folly in Kent, has been transformed into luxury holiday accommodation following a £4 million restoration lead by Thomas Ford Architects and main contractor Mansell Construction (above); A newly installed steel and timber spiral staircase hugs the octagonal interior walls of Hadlow Tower, rising several storeys to the top (right)



© Balfour Beatty

firms in the sector to diversify or change focus. For example, William Anelay, one of Britain's oldest builders, was previously committed purely to the conservation and restoration of historic buildings, but has recently switched tack to target more newbuild work designed to exploit the specialist skills of its workforce.

The typology of heritage schemes is also changing in response to economic pressures, with some clients looking to include more commercial elements to help recoup their costs. A more commercial-oriented market has also meant that several non-specialist contractors are also now competing for projects, with a detrimental impact on quality, says Greg Luton, director of Heritage at Risk at EH. "Any area where there's a will to build quality out of a project is an area of concern and people do try to cut corners, use cheaper materials, or less well designed

solutions. I've heard of situations where a scheme might require good English hard woods, or lead finishes, but they have gone for cheaper materials to save money."

The heritage sector has long suffered from a lack of skilled and qualified tradesmen, such as stone masons, carpenters, or joiners. A report produced in 2008 by the National Heritage Training Group found that only around one third of the workforce had the skills needed to work with traditional building materials and recent cutbacks mean these skills are in even shorter supply. Turning things around will mean investing in time and energy to change attitudes to traditional building skills and developing training and skills infrastructure. That however, will also require funding which isn't exactly forthcoming right now...

CE marking. What does it mean for architects?

By Geoff Gurney, CE marking manager at BBA

For architects and other specifiers it is pretty much business as usual. The Construction Products Regulation (CPR) sets out conditions for placing products on the market and harmonises the way in which performance is assessed and expressed.

The CPR achieves this by means of harmonised technical specifications, known as harmonised European product standards (hENs) or European Assessment Documents (EADs), which are used as the basis for issuing European Technical Assessments (ETAs) for products not covered or not fully covered by hENs.

The harmonised technical specification defines EEA-wide methods of assessing and declaring of performance characteristics required by regulations in any member state which affect the ability of construction products to meet the basic requirements for construction works. This means that separate tests are no longer needed for products being sold in more than one member state.

The CPR only covers regulated issues, and to accommodate this hENs have an Annex ZA which sets out the requirements for CE marking.

Providing local Building Regulations are met, designers, specifiers and users are free to set their own requirements on the performance of the works and, therefore, construction products. The information contained in the manufacturer's declaration of performance (DoP), together with the product specification, will make it possible to compare products and judge whether they meet all relevant regulations.

The DoP is therefore key with the CE marking being a summary and indication that a product is consistent with its DoP. The information to accompany the CE marking is set out in the harmonised technical specification.

However, this information needs to be treated with caution. Take for example BS EN 13859 relating to roof tile underlays: BS EN 13859 Flexible sheets for waterproofing — Definitions and characteristics of underlays — Part 1: Underlays for discontinuous roofing.

Clause 4.3.2.3 Class W3 – If the product fails the test indicated in 4.3.2.2, e.g. the measured mean volume passing the specimens exceeds 100ml, it shall be classified as resistant to water penetration Class W3. Untested products shall also be classified as resistant to water penetration Class W3.

This means products within the scope of BS EN 13859 can bear the classification W3 and have failed, or not have been

tested, for resistance to water penetration. It is important that users and specifiers understand the levels and classes reported in the DoP and subsequent CE marking.

The system of Assessment and Verification of Constancy of Performance (AVCP) is the term applied to define the degree of involvement of third parties in assessing the conformity of the product according to the relevant technical specification. For each product family, the system of AVCP is decided collectively by the Member States and the European Commission depending on the implications of the product on health and safety and on the particular nature and production process for the product itself. There are five systems of AVCP and levels of involvement of a third party range from full product certification and audit testing to no involvement at all, only the manufacturer's endorsement.

Subsequently it is important that the specifier or designer checks the detail before making a decision, as the above examples clearly show.

Voluntary marks are permitted provided they fulfil a different function from that of the CE marking, are not liable to cause confusion with it, or reduce the CE marking's legibility or its visibility. They should provide added value such as by covering a new characteristic not dealt with in the harmonised technical specification or a higher level of AVCP.

Manufacturers may use voluntary marks where they add value to the CE marking and do not cause confusion. For example:

- to support information in respect of the 'voluntary' (non-harmonised) part of a hEN
- to include additional third-party involvement above that required by the prescribed system of AVCP, such as durability, installation etc., that is outside of the scope of the harmonised technical specification
- to place the test characteristics in context in the area of use, for example in relation to Building Regulation compliance.

The CPR also adds responsibilities to importers and distributors who must assure themselves that the manufacturer has undertaken all that is required.

Architects and specifiers working with public or private bodies that are acting as a public undertaking must also consider other EU legislation affecting them and connected with standards, specifications and procurement.

'It is important that users and specifiers understand the levels and classes reported in the DoP and subsequent CE marking'



Ancon leads the way with CE Marking



Ancon has achieved all the necessary welding and factory production control certification to CE-mark its structural steel components, including masonry support systems and windposts, under the EU Construction Products Regulation. The certification, gained in May 2013, followed a thorough audit of the company's design and fabricating operations in accordance with EN 1090.

Expert external auditors verified Ancon's design

methods to Eurocode 3, Welding Quality Management System to ISO 3834 and that all welding personnel held EN 287 qualifications.

0114 2755224 www.ancon.co.uk

enq.156

BM TRADA helps Reisser achieve CE marking



Reisser has achieved CE marking for its R2 and Cutter series of wood screws with the help of BM TRADA. BM TRADA conducted initial type testing for the high performance wood screws, which are used within the construction industry. The Cutter features two

patented slots and distinct ribs and tucks under the head to enable screwing closer to the edge without splitting, while the R2 uses hardened steel to provide maximum tensile and torsional strength and features a sharp point and wide deep thread, which allows it to penetrate all timbers without a pilot hole. Since the screws are often used in structural applications, Reisser was required to use a Notified Body to conduct testing before a CE mark could be applied.

01494 569750 www.bmtrada.com/technical

enq.158

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Two new senior appointments to the BBA



The BBA is pleased to announce two new senior appointments to its management team. Both are new roles created to improve processes within the organisation and capitalise on new opportunities in the construction market. Peter Maddern has been promoted to head of contractor and system

certification with responsibilities for the BBA's installer and management system businesses while Fanoula Ziouzia has been promoted to head of business development and administration. Peter has been with the BBA since 2002 when he initially joined as an inspector for replacement windows after the BBA secured the inspection business for FENSA.

01923 665300 www.bbacerts.co.uk

enq.157

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iPro™ software from SEMA4c



There has been huge changes in technology in the timber building industry and the software industry. Dealers of engineered wood I-joists no longer have to be tied into a single supplier's design software thanks to a new universal design program from multidisciplinary consultancy C4Ci. This

software is also available now through SEMA4c, a company with which C4Ci has formed a collaborative partnership. The iPro™ software designs, schedules and costs any EWP (engineered wood product) floor irrespective of the brand of I-joint being employed. The system marks a radical departure from the established practice whereby the EWP system owners provide their dealer network with software tailored only to their products.

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01799 512031 www.buildingwarranties.com

enq.162

Neaco products now available in National BIM Library



Neaco's Spectrum range of modular handrails, balustrade, balconies and structural glass is now available in the National BIM (Building Information Modelling) Library, the construction industry's free-to-use online resource of NBS standard BIM content. Developed and managed by NBS, National BIM Library enables construction professionals to locate and download generic and proprietary BIM objects available in industry-neutral IFC format and formats compatible with Autodesk Revit, ArchiCAD, Vectorworks, Tekla and Bentley. It is the latest NBS initiative designed to provide, share and maintain quality information for the built environment. The service aims to host a comprehensive range of systems and products for various building elements to become the primary source of standard and proprietary BIM objects. Neaco's national sales manager, Richard Richardson-Derry, said: "With their class-leading lifetime guarantee and modular systems guaranteeing uniform quality and design accuracy, Neaco's precision-engineered products are ideally suited to National BIM Library, which is fast emerging as vital means of establishing a common approach to quality standards across the construction industry and encouraging consistency and best practice."

enq.163

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Centaur technologies takes flight



RAF Cosford in Shropshire was the impressive setting for the launch of a new force in liquid roofing – **Centaur Technologies Limited**. The Lancashire-based company has been founded by Jeremy Gorick, the former managing director of Liquid Plastics, Phil Richardson, the former mar-

keting and technical director of Liquid Plastics and Bob Stanfield, the former R&D director of Liquid Plastics. Many key industry figures came along to the event where Centaur Technologies also unveiled Centech PU, the world's first ever hybrid polyurethane roofing system. This groundbreaking, UK manufactured product will bring a wealth of benefits to the industry.

01772 453107 www.centaurroofing.co.uk

enq.166

Wienerberger donates pavers and roof tiles



Wienerberger has donated a selection of roof tiles and pavers to a Habitat for Humanity development in Toxteth, Liverpool, as part of its partnership with the international development charity. Donating its Hannover Buff Brindle clay pavers, the Chamfered Pavers will allow for continuity

between schemes to be achieved. For the pedestrian ways, the pavers will be used in flexible pavements with sand beds and joints, and an enhanced bond pattern will be achieved with a finish that clearly defines each paver's shape. Wienerberger's Calderdale Slate roof tiles have also been donated, a cost-effective concrete tile, which gives a slate-like appearance with all the benefits of modern interlocking tile design.

enq.168

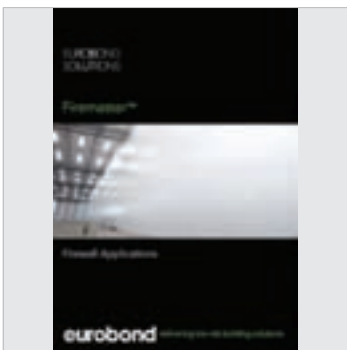
Brio single run offers zero clearance



Brio has developed a wide range of fixings for exterior and interior sliding timber doors with its Single Run portfolio. Now the company has added an option to the range to make floor to ceiling sliding doors more streamlined. Floor to ceiling sliding doors and shutters are becoming more and more popular in domestic, commercial and retail environments, providing in-built flexibility for how the space is used. To achieve the modern minimalist look you need unobtrusive hardware that can be discreetly hidden from view. Brio has risen to those challenges by offering its Single Run 100 top hung system with a Zero Clearance option. Single Run 100 Zero Clearance hardware allows minimal gaps between the door panel and hardware.

enq.170

Firemaster delivers a triple whammy!



The latest range of **Eurobond Firemaster** internal wall panels delivers a unique 'triple whammy' of market leading product benefits. An independent cost comparison study of non-load bearing fire rated compartment and partition walls has shown cost savings of up to 40 per cent per m² are possible for Firemaster panel solutions, when compared to conventional jumbo stud and block work constructions. Strength and robustness Firemaster has been independently tested to BS 5234-2: 1992 and achieved Severe Duty Rating. This is the top rating achieved by conventional built up stud and board partitions, demonstrating Firemaster's suitability when a project requires partition walls with proven strength and robustness. Steel facings and stone wool insulation can be recycled at end of life into new virgin product, zero waste to landfill, zero ODP, zero global warming and non-VOC. Firemaster is manufactured by Eurobond Laminates Limited and has been developed as a 'total internal wall and ceiling solution' ideally suited for the construction of non-load bearing internal partition walls, and ceilings. The system comes with the reassurance of tested fire performance of up to four hours for internal firewalls, ceilings or compartmentation walls and is designed to be integrated with fire rated Eurobond Doors.

02920 776677 www.eurobond.co.uk

enq.172

Helifix's new technical product datasheets



To complement its new technical brochure, 'Principles, Products and Applications', masonry repair specialist, **Helifix**, has launched a full set of individual product datasheets. These provide detailed information on every helical fixing in the range, identify those that carry CE Marking under the Construction Products Regulation and aid product selection, specification and installation.

Each of the company's new build and remedial wall ties, fixings, reinforcements and structural stabilisation products has its own dedicated product sheet detailing their applications, technical specifications, installation procedures and recommended tooling.

enq.167

Pressure relief from Delta-FM



To combat dampness and eliminate contamination in concrete floor applications, Delta-FM is a high performance high-density polyethylene sheet from **Delta Membrane Systems**. The low stud profile of just 3mm helps to minimise deviations in floor levels, but still provides an air gap to achieved damp

pressure equalisation. A flange strip along one side of the roll allows jointing to be carried out with an overlap, but without affecting the overall height of the installation. Quickly fitted to ensure minimal downtime for installers, Delta-FM ensures the percentage RH levels are isolated in the air gap, and controlled. Suitable for use in conjunction with thermal insulation, sound insulation and many types of underfloor heating systems.

enq.169

Carl F Groupco secures KAT UK contract



KAT UK has selected **Carl F Groupco** to supply all inline patio hardware products. Drawing on the benefits of its independent distributor status, Carl F Groupco has sourced the best components to suit KAT UK's demanding requirements from a select range of leading manufacturers. Supporting KAT UK's focus on

environmental responsibility, Carl F Groupco has adopted a Kanban packaging system which reduces waste and simplifies the ordering process. Orders are delivered weekly using customised, re-useable packaging designed to reduce the carbon footprint. Market leading products supplied include six and eight hook inline patio locks & robust and sleek patio handles.

enq.171

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Walk barn farm showcases steel windows



An architectural practice renowned for the design of bespoke residential properties has employed W40 steel screens and doors for a project in Suffolk that makes the maximum connection between interior and exterior space, as well as optimising energy performance. The steel framed screens, all in their bare galvanised finish, look

out across the agricultural landscape to the trees and countryside beyond. Despite the large area of glazing, W40 steel frames are able to comply with the latest amendments to Part L of the Building Regulations. West Leigh, a member of the Steel Window Association, fabricated a total of five separate screens up to 3,330 mm in height: each one comprising a series of separate units.

enq.174

Composite doors get a new face



The Door Factory has developed a brand new concept for composite doors. The external face of the company's rebated doors can now be clad with a series of aluminium extrusions, which lock together to replicate a traditional door construction. This means doors can be finished with vertical, horizontal or diagonal panels. There are just three components;

bottom/mid-rail, top/side-rail and the plank panels. The aluminium facings are available in Golden Oak, Rosewood, Cedar and Walnut woodgrains, which are finished using the Decoral sublimation process. Powder coated RAL colours are also available, but on an extended lead time. The doors can be supplied complete in a Veka PVCu outer frame.

enq.176

Kawneer glazing takes silver



HFD Group's EcoCampus office development features glazing systems from architectural aluminium supplier **Kawneer**. The manufacturer's AA*110 zone-drained curtain walling was specified to achieve narrow 65mm sightlines, with a silver anodised aerofoil cap to create a subtle depth to the

façade. Concealed window vents were designed into each bay to provide natural ventilation and Kawneer's AA*110 SSG (Structurally Silicone Glazed) curtain walling was specified at the main entrance and feature stairs to further enhance the quality of design in these public areas. The EcoCampus is the UK's first carbon-neutral BREEAM Excellent speculative office development in the UK.

01928 502500 www.kawneer.co.uk

enq.175

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news blog

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

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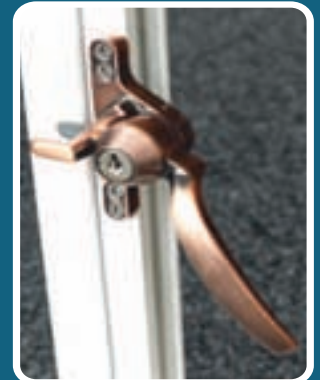
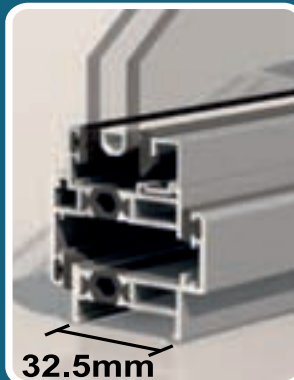
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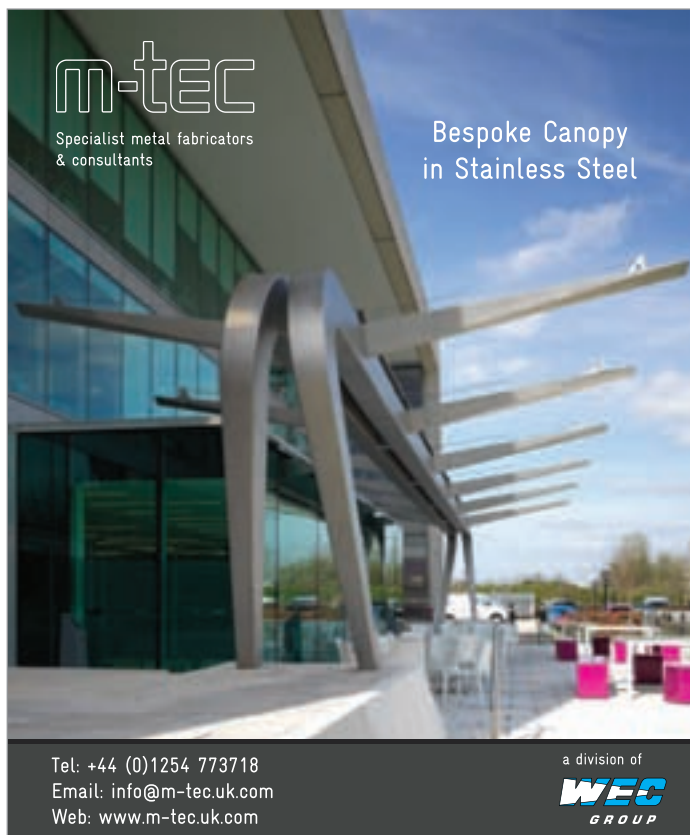


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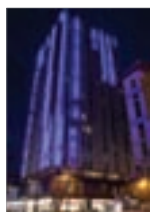
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Kawneer glazing is a pioneering curtain call



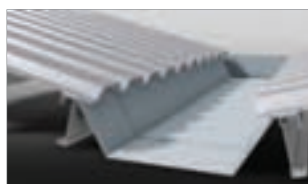
The first office block to mixed-use conversion in Scotland to benefit from the government's Business Premises Renovation Allowances Scheme has been reclad with Kawneer's modular curtain walling system for its logistical and quality benefits. The aluminium system supplier's unitised or off-site AA*201 curtain walling is now the façade of the 210-bedroom Premier Inn hotel on the corner of West Nile Street, one of Glasgow's most popular shopping areas.

The 14,500m² project involved stripping the podium and the 15 stories above back to their reinforced concrete structure and refurbishing and recladding them with the Kawneer glazing system.

01928 502500 www.kawneer.co.uk

enq.182

IKO Single Ply new rainwater system



IKO Single Ply has launched a new rainwater management system for commercial building projects using its Armourplan® PVC single ply membrane. Armourflow Coated Metal is a 2.4mm thick PVC faced steel sheet, specifically developed to be site formed into high

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A brush with Rainline



Lindab has introduced, as an optional extra for its popular steel based Rainline gutters, Leafline a gutter brush system designed to prevent leaves, twigs and other debris from blocking the gutters and birds and rodents entering the loft space. Featuring a stainless steel wire core and long lasting polypropylene bristles, Leafline is easy to install, no special tools or training is required, and it is virtually indestructible. Available in 3 metre continuous lengths and three diameters (100mm, 125mm and 150mm) Leafline is available in black or opaque.

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Check it out... It's groovy baby!

In the 1960's groovy was the description for anything that was new, attractive and excellent. Today the same can be said for Eurobond Laminates' new range of grooved panels that enables the designer to create the visual expression of multi module panels and still keep the performance and cost benefits of large panels. To deliver this exciting new development Eurobond has developed a new profiling facility. For any given module width of panel a designer can specify single or multiple grooves that simulate a panel joints. The benefits of multi module design, with fewer panels and panel joints, help to provide a significant saving in both labour and material installation costs; as well as increasing overall air-tightness performance of the building wall envelope. Panels can have one central groove, two with equal pitch or specific asymmetric pitches. The 'groove' is available with the premium architectural panel system Europanel S5 and F5 and can be applied to the full range of panel thicknesses and finishes.

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Lead roofing and its modern replacements

Theft of lead flashings from roofs and concerns over the health and safety implications of working with the material generally has prompted the launch of lead-free solutions. Kevin Ley, technical manager of UK roofing manufacturer Redland, explores the issues



Increasing concern over just how hazardous lead is, combined with the theft of lead products from roofs across the country, means architects are looking elsewhere when specifying solutions for roofs.

Theft of lead is an ongoing problem in the UK – it is spurred by a rise in the worldwide price of metals. Criminal gangs have targeted the roofs of churches, town halls, schools and charities.

According to figures cited by the insurance industry, the annual cost of these thefts stands at a staggering £50 million. A spate of thefts in the East Midlands, attributed to just one gang, caused more than £1 million of damage alone.

Thieves will often target lead flashings around chimneys and side abutment details, ripping off roof tiles and damaging the roof in the process. The problems this causes are obvious: leaking roofs, massive inconvenience to property owners and the cost of replacement work and materials.

However, it is not just the costs and disruption of replacing lead products from roofs which has prompted architects to start looking elsewhere when specifying roofing products. It is no secret that lead is a toxic material and therefore the health and safety implications of using it are enormous.

According to the World Health Organisation (WHO): “Lead is a toxic metal whose widespread use has caused extensive environmental contamination and health problems in many parts of the world.”

Because of the risks associated with lead, rigorous health and safety practises have to be deployed when such products are used. This causes an obvious headache for contractors, builders and property owners alike.

The Health and Safety Executive (HSE) – Britain's independent regulator for work-related health, safety and illness –

warns that working with lead can affect your health. According to its official guidance on the matter, health problems can occur if somebody absorbs too much lead. The biggest risk of this happening is through breathing in lead dust, fume or vapour, or by it being swallowed.

Lead, which is usually stored in the bones, can remain undetected for years. Symptoms such as headaches, tiredness, irritability, constipation, nausea, stomach pains, anaemia or loss of weight can occur when the amount of lead in your body exceeds safe levels. And continued exposure can cause more serious problems including kidney damage, nerve and brain damage and infertility.

Building firms are required by law to manage the hazards and risk of lead by planning, managing and monitoring construction work so that it is undertaken safely and without any risks to the health of their employees. A legal duty is also imposed on them to cooperate with the property owner in order to manage the work and meet responsibilities for site safety.

This includes providing those who are likely to have significant exposure to lead with protective clothing. The level of lead in the air they are exposed to must also be measured and respiratory protective equipment may be required. It is recommended a doctor measures the level of lead in workers' bodies while they are on site.

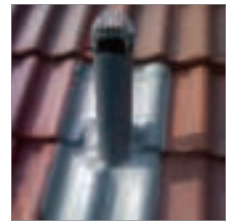
The HSE has recently fined a number of construction companies for falling short of their responsibilities and duty of care towards those working on building sites for them.

There are many measures that property owners and builders can follow when working with lead products in order to limit the damage and risks. But those onerous issues will not go away. Similarly, despite the fact the government has launched a crackdown on the wider problem of scrap metal theft by targeting dealers, the problem will never disappear. So therefore prevention has to be better than a cure.

Specifying lead-free solutions will avoid all of these issues for both the property owner and the builder. Lead-free solutions also reduce the long-term leaching of lead into the water system and natural environment. We have seen responsible architects right across the country doing so on a regular basis.

Replacement solutions now exist that contain no lead, while offering the same look and weatherproofing qualities. These options currently available on the market are not only safe to handle but also cheaper and easier to install – providing a fitting modern method of construction.

‘Replacement solutions now exist that contain no lead, while offering the same look and weatherproofing qualities’



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the Daventry, Northamptonshire based manufacturers of the new, UK designed, 'Redbacks' cushioning kneepads which are winners of the '2012 SATRA Best Innovation in Occupational PPE Award'.

01327 702104 www.redbackskneepads.co.uk

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Community centre, Belfast



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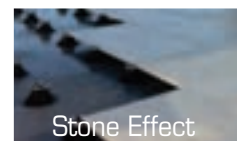
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Fakro roof window's Passive House approval



Fakro has announced the award of a Passive House certificate for its quadruple-glazed FTT U8 Thermo roof window. This has by far the best U-value currently available in a standard roof window – just 0.58W/m²K. Managing Director Noel Shanahan commented, "Fakro has developed a reputation for innovation over the past decade but Passive House certification is the clearest illustration yet of the development work which goes into our products."

The FTT U8 offers other benefits such as a raised pivot point, topSafe® anti-burglary protection, warm spacers to minimise risk of thermal bridging and an operating handle in the base of the sash.

01283 554755 www.fakro.co.uk

enq.199

VIVIX® exterior façade panels



Formica Group's VIVIX® exterior façade panels have been used for the refurbishment of Raahe Hospital in Finland. The architects, SIPARK Oy and Ulla Mattila chose VIVIX® panels to improve not only the aesthetic appearance but also the thermal efficiency of the building. There is a constant need for innovative and affordable means to

rejuvenate and refurbish properties. With a range of cladding solutions available, architects are increasingly choosing materials for exterior cladding that are not only decorative and provide the opportunity to accentuate elements and features, create a statement or a building identity; they also require materials that are practical, functional and can contribute to how the building performs.

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enq.201

Healthcare Estates

Exhibition, Conference & Dinner

8-9 October 2013 Manchester Central

Putting Positive Energy into Healthcare

A radical new blueprint for how the NHS buys and funds everything, from rubber gloves and stitches to hip implants, building work and temporary staff, has been unveiled this week by Health Minister Dr Dan Poulter.

The NHS is the single biggest organisation in the UK and hospitals are being encouraged to make big savings and radically change the way they buy supplies, goods, services and how they manage their estates. The new strategy Better Procurement, Better Value, Better Care: a Procurement Development Programme for the NHS is set to completely alter how the health service spends money by cutting waste so that cash can be ploughed back into frontline services. It details ambitious plans to save £1.5 billion by becoming smarter and more efficient in the way the NHS buys supplies and does business.

Healthcare Estates addresses a number of the key areas of this initiative with a major focus on energy and energy savings, new technologies and products available, new benchmarks for design and construction plus examples of smarter estates, efficient lighting, infection prevention and property and premises management.

The Healthcare Estates conference and exhibition programme will be addressing key areas where savings can be made in the healthcare sector. The opening plenaries on day one and two sets the scene for the changes required in the healthcare sector. Opening sessions by John Nangle, crown commercial lead for energy at the cabinet office will reiterate the savings that have already been made and further energy savings solutions identified.

Day two opening plenaries start with Dr Chandrashekar who will give an International view on performance and productivity improvements being made in healthcare and plans in India, while Peter Sellars, head of profession at the NHS Estates & Facilities Policy Division, will talk about estates and facilities assurance to support future regulatory process.

The main conference programme splits into key streams allowing delegates to attend sessions focused on the following areas: engineering; design & construction; research & development; estates & facilities; energy savings solutions; infection prevention; property & premises management; and estates.

Highlighted sessions include *How to Measure the Impact of Energy Efficiency Behaviour Change Interventions in Hospitals*. This session, part of the research & development stream, looks at how considerable energy savings can be achieved through changes in user behavior. In the engineering stream, delegates will hear how CHP coupled with efficient technologies can reduce costs and cut emissions without affecting the balance sheet.

Nearly 200 companies will be displaying a fantastic array of products and services this year and the exhibition promises to be a fascinating two days for visitors with many changes impacting on all areas of healthcare.

Hospitals will be able to see where they are lagging behind and could do better, with advice from many of the leading companies in the sector helping healthcare providers learn from the best hospitals and suppliers, with a number of the sessions focused on real examples of successes in the sector.

The Department of Health is being encouraged to make the most of the market by working with top NHS suppliers directly to strike new, bulk deals for cutting-edge medical equipment like radiotherapy machines and MRI scanners while growing the economy by making the NHS more agile and better at working with small and medium-sized businesses.

Exposing poor value for money and bad contracts by making more data about the deals the local NHS is signing publicly available and improving support to help senior NHS staff better understand procurement all form part of the new strategy announced by Dan Poulter: "This kind of poor resource management cannot go on, and this radical new strategy will help our NHS get a grip on wasteful spending to drive real change and improved procurement practices so that more of our NHS resources can be spent on frontline patient care."

The strategy has been widely welcomed by the supplier community. Nick Gerrard, chief executive of NHS supply chain, said: "We are committed to supporting the Department of Health and NHS organisations with the implementation of this strategy to deliver greater efficiency savings from procurement and supply activities. Through our experience of working with NHS trusts, we do believe that further efficiency savings can be achieved through working together to aggregate NHS spend, and provide commitment to suppliers to get the best value out of every pound spent on procuring products."

The exhibition provides visitors with an opportunity to find out about the latest changes and implications for you and your teams. For estates and facilities departments, architects, consulting engineers, construction companies, suppliers and others directly involved in managing estates and facilities the exhibition, features and conference is critical to helping you run your organisation.



Over two days on the 8 - 9 October, Manchester Central (formerly GMEX) will host the whole industry

Entrance to the exhibition is complimentary and registration couldn't be simpler, online at www.healthcare-estates.com or you can turn up onsite and register for free

Look out for



Aid Call has been at the forefront of wireless nurse call technology for over 30 years. Its first class knowledge, innovative approach and reputation for delivering reliable, safety critical solutions has clearly positioned it as a leading supplier of wireless nurse call solutions. The system incorporates the most advanced two-way radio technologies featuring automatic acceptance. Visit stand C29. enq.202



Vistamatic Vision Panels is a leading brand of glazed privacy viewing panels, which offers a full range of products designed for all healthcare environments. It is also now manufacturing a wide range of observation solutions including BetweenGlassBlinds and Smart Glass. Its products come with a variety of operating methods including a number of anti-ligature options. Visit stand E23. enq.203



Wandsworth is at the forefront of hospital communications technology, with its innovative 'IPiN' Nursecall system. Wandsworth Group has grown to become a major service provider, with some major PFI projects to its name. Offering design, supply, installation, commission and maintenance packages, Wandsworth Group can provide a complete turnkey solution. Visit stand E27. enq.204

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All new stainless steel drainage channel

Blucher manufactures a wide range of stainless steel drainage solutions for healthcare construction. The company's product ranges include channels, drains and push fit pipework, all of which carry excellent hygienic qualities and whole life costs making them a durable and cost effective product for today's healthcare market. Included on Blucher's stand at Healthcare Estates this year will be information relating to the forth-coming launch of a completely new design of drainage channel, which will be the most hygienic channel on the market. The all-new design eliminates corners and crevices and includes a new style of grate to suite its unique appearance. To receive further information and updates regarding its launch visit stand B15.

01937 838 000 www.blucher.co.uk

enq.207

Bringing IP to the bedhead

IP based system, IPiN has moved nurse call from being evolutionary to being revolutionary!

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Intastop's products at Healthcare Estates



Intastop, innovator of door, wall and anti-ligature protection for the healthcare industry, will be featuring its unique Door Top Alarm at this year's Healthcare Estates Exhibition. Also showcased on stand D30 will be the company's renowned Antibacterial Impact Protection Sheet plus a new product line, Finger Safety Hinges. Visitors to the stand will get the chance to see the products first-hand and witness them in action. In particular, the Intastop Door Top Alarm, which has been developed to prevent attempted suicide from the tops of doors in mental health wards and establishments.

enq.209

Kingspan gives fire station Weymouth wave



A £6.5 million fire station has quickly become a local landmark thanks to its iconic wave-form roof, made possible with the use of over 5,000m² of Kingspan's high performance Thermarof TR27 LPC/FM insulation. Weymouth Community Fire Station is the first purpose built community fire station in the UK and replaces the town's outdated coast-front fire station. One of the most technically challenging aspects of the project was the station's eye-catching wave-form roof. The design made Kingspan Thermarof TR27 LPC/FM the ideal choice for the building.

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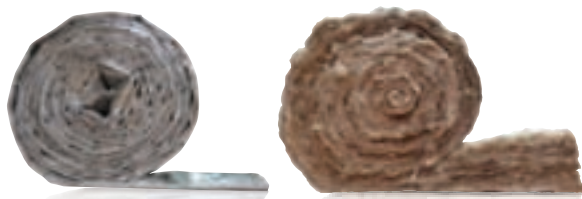
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enq.212

Recticel makes its mark with insulation



Recticel Insulation has underlined the outstanding quality and performance of its products by making a Declaration of Performance for each one readily available via its website. The move follows the recent July 1 deadline when the Construction Products Regulations (CPR) came into force, replacing the Construction Products Directive. "The Regulations make it mandatory for manufacturers to add CE marking to all their products and to also make Declarations of Performance available for each one," comments Recticel Insulation's technical manager, Peter Wilcox. The declarations provide all the appropriate information on the various insulation products in the Recticel range, including essential product characteristics such as thermal resistance.

01782 590 407 www.recticelinsulation.co.uk

enq.213

Sontay helps lift energy efficiency at Eden



The Eden Project in Cornwall, one of the UK's largest visitor attractions, has undergone a site-wide upgrade of its Building Management System (BMS) to enable control of multiple buildings and the iconic Eden biomes. The installation features a number of Sontay's market-leading temper-

ature, humidity, CO₂, pressure sensors and other devices, chosen for their reliability, accuracy and ability to work in critical environments. The aim of the upgrade was to provide an easy to maintain system that also helped Eden save energy. As a result, Eden is now one of the first projects in the world to fully integrate horticultural and building control systems.

enq.214

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VIPs seal the deal

By Tony Millichap, technical manager of Kingspan Insulation Limited

Ensuring a high level of building fabric performance has become increasingly important in recent years as new regulations and the rising cost of energy lead to a greater demand for more efficient buildings. However the thicknesses of construction required to achieve this performance with traditional insulation materials can lead to compromises in certain areas of a building's design. Vacuum Insulated Panels (VIPs) offer a specialised solution for this issue, achieving optimal levels of thermal performance with the bare minimum insulation thickness.

Going continental

VIPs are a relatively recent addition to the UK market but have been used for several years in both Germany and Switzerland – countries which historically have been ahead of the curve in embracing new, more efficient building technologies and performance standards such as Passivhaus. In these countries the panels have been successfully used in building applications where a lack of space, due to design or the constraints of refurbishment, means that they are the most efficient, and perhaps the only viable, insulation solution.

One of the most common applications for VIPs on the continent is for balconies or roof terraces which sit directly above or adjacent to a heated room. Use of traditional insulation materials for these areas often results in either a step up between the balcony and the adjoining room or a trade-off in the height of the room below. The ultra-thin VIPs however make it possible to avoid these compromises and achieve a consistent floor level without denigrating the overall performance of the building fabric.

Top performer

VIPs are made from a micro-porous core, which is 'evacuated' and sealed in a thin, gas-tight membrane. The membrane has to be capable of withstanding atmospheric pressure, and of maintaining the vacuum over time. The resulting panels can provide an insulating performance that is up to five times that of traditional insulation materials, providing a potential solution for problem areas where depth of construction is at a real premium.

There are a number of reasons why having this edge could be important. Although the next changes to the Approved

Documents L are looking to be less onerous than they might, there will still be a firm emphasis on greater improvements to the building fabric. Looking forward to 2016, the target for zero carbon housing is still set, and the leap from the 2013 amendments will be extremely challenging. Quality of build is also coming under the spotlight, with calls from the government and bodies such as the Zero Carbon Hub for the industry to ensure that 'as built' meets the designed performance.

Each time performance requirements tighten there will be instances where it is extremely difficult to meet them fully, running the risk of penalties or even non-compliance. VIPs help to avoid these issues and make an excellent choice for both new-build and refurbishment specifications.

For example, a typical Edwardian terrace refurbishment of a solid concrete ground based floor, (perimeter:area ratio of 0.3), requires 95mm of EPS (0.038W/m.K) to achieve a U-value of 0.20W/m².K. This normally involves an extended building program with a great deal of digging down and removal of earth, or the raising of floor levels, with all of the subsequent work that has to be undertaken in raising doors, lintels, skirting boards and radiators.

In contrast, to match this level of thermal performance, just 20mm of a VIP product (0.007W/m.K) is required, while 50mm would deliver an impressive 0.11W/m².K, helping projects to meet the most demanding standards. The advantages of using this kind of system in a solid floor upgrade are clear.

High and low

As well as being very thin, the panels are also extremely lightweight, reducing potential structural loading stresses on existing buildings. This makes them an attractive solution for roof installations, particularly in cases where the building's design or planning height restrictions require the build-up to be kept as slim as possible.

For example, just 40mm of a VIP product with a thermal conductivity of 0.007W/m.K, together with a 25mm high performance rigid thermoset PIR board overlay, can deliver a U-value of 0.16W/m².K when used on top of a timber deck with a plasterboard ceiling.

VIPs can be used in a number of roof build-ups including green roofs and provide exceptional thermal performance that will last over the lifetime of the building. Issues such as penetrations or small gaps in the insulation layer due to the size or configuration of the area are easily dealt with using high or premium performing rigid thermoset infill panels to avoid thermal bridging.

The complete building envelope

VIPs offer a unique, space-saving solution, allowing architects to achieve designs which would simply not be possible with conventional insulation materials. The panels are able to support an increasingly wide range of applications and when used effectively they perfectly complement other high performance insulation products and allow the building fabric to meet the most demanding standards.

enq.216

'The ultra-thin VIPs make it possible to achieve a consistent floor level without denigrating the overall performance of the building fabric'

Tony Millichap



The very high levels of thermal efficiency achieved by VIPs could revolutionise refurbishment applications



With an aged lambda of just 0.007W/m.K, VIPs can provide solutions for areas that would previously have remained un-insulated because space was an issue

All new Digi-Line electric radiators



The **Electrorad** Digi-line range has been relaunched with all new electronics and components. They look and heat like regular central heating radiator but with some very clever, state-of-the-art electronics to ensure ultimate control and minimum energy usage. The radiators are filled with a thermal fluid to transfer heat to the

whole surface area. The fluid is heated by 100 per cent efficiency electric elements, controlled by the most advanced thermostat electronics available. Features include: energy saving open window feature; surface temperature control and double panel radiator smart control.

0844 479 0055 www.electrorad.co.uk

enq.217

New Q-Vent HR400 heat recovery system



The new Q-Vent HR 400 is the latest highly energy efficient heat recovery unit from **Johnson & Starley**. It complies with Energy Saving Trust's Best Practice scheme, featuring energy efficient EC fan motors, and a high efficiency counter-flow heat exchanger. The Q-Vent 400 is the ideal solution for many local authority, housing association and private residential new build or refurbishment projects. It is designed for vertical wall

or loft mounting and manufactured to BS EN ISO 9001:2008. The Q-Vent HR400 is installed in a roof space or cupboard, but most of the system is hidden from view as it has been designed into the house construction.

enq.219

Stelrad swings into action!



Radiator manufacturer **Stelrad Radiators** has introduced its brand new, curved vertical premium panel radiator to the UK market – the Stelrad Swing. The new model is based on Stelrad's extremely

popular Compact Vertex radiator but sees the addition of a one piece, curved steel front cover that gives it a modern and aesthetically pleasing designer feel. It comes in white as standard but can be specially ordered in up to 35 colours, making it an extremely attractive product for interior designers and architects, looking to match radiator colours with corporate or specific colour décor.

0870 849 8056 www.stelrad.com

enq.221

Vent-Axia shortlisted in Energy Awards



Vent-Axia has made the final shortlist in the prestigious Energy Awards 2013, which recognise and reward companies leading the way in reducing carbon emissions. Vent-Axia's Lo-Carbon Kinetic Plus E, Mechanical Ventilation with Heat Recovery (MVHR) system has been selected for the shortlist in the 'Energy

Efficient Product of the Year' category. Launched in July 2012, the Kinetic Plus E is the best performing MVHR system listed on SAP Appendix Q. It boasts a specific fan power as low as 0.4W/l/s, combined with 94 per cent heat recovery, and provides valuable reductions in Dwelling Emission Rates.

0844 856 0590 www.vent-axia.com

enq.223

Trox introduces new X-FANS to UK



TROX has introduced its new X-FANS range of ventilation and smoke extraction products to the UK market and announces four new additions. TROX TLT axial, centrifugal, roof fans and duct installation fans are suitable for ventilation and smoke extraction in buildings such as airports, hotels, factories, offices, enclosed car parks and traffic systems. The four new product lines include: the X-FANS EC Roof Fan range for

ventilation; the X-FANS Impulse Jet Fan range for smoke extraction from galleries; the X-FANS Jet Ventilation System for enclosed car parks; and the VDS VentilatorDiagnoseSystem.

enq.218

New pressurisation units released by Wilo



Wilo has announced the release of a new series of Pressurisation Units for closed heating and chilled water systems for use in commercial and industrial premises. They are available in four ranges to suit every installation – from open pack base mounted, comfort wall and floor mounted and twin systems able to control both heating and chilled systems. Each range has one and two pump models available with a selection of pumps to suit a range of static require-

ments. Wilo pressurisation units are designed to keep sealed MTHW (up to 90°C), LTHW and chilled water systems at a predetermined pressure by topping the system up with wholesome water via an AB air gap.

01283 523000 www.wilo.co.uk

enq.220

Domus Thermal LABC approval extended



Polypipe Ventilation is delighted to announce that the approval criteria outlined by the LABC for the use of their Domus Thermal duct insulation solution has been extended. Domus Thermal is recognised by the LABC as an innovative (patent pending) system that radically improves the thermal insulation of

ventilation ducting in domestic properties, preventing heat loss and contributing to a healthy living indoor environment by eliminating the formation of condensation. The LABC supported Domus Thermal upon its launch, when this uniquely engineered product was added to the LABC Registered Systems list for use on round or rectangular rigid ducting passing through cold spaces.

enq.222

Eliminator doing the biz



One of the unsung heroes of reliable heating and plumbing installations is effective water treatment solutions. Chris Jones, regional manager for Rothwells Plumbing Services for the north east: "When the new 'Eliminator' was launched by **Sentinel**, just knowing it was a Sentinel product gave us enough confidence to give it a sensible trial. It was clear the new Sentinel Eliminator Filter was making a big improvement to the quality of the installations. The great feedback from our engineers has convinced us that fitting these new filters for our housing association and local authority clients and on all our ECO installations is a major benefit to us."

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How to design in solid fuel

Addressing the challenges of designing solid fuel into the modern built environment, experts from the Solid Fuel Association (SPA) reports on three issues which can leave architects scratching their heads

The SFA offer expert technical guidance to the consumer and professional alike. Many clients wish to incorporate some form of solid fuel heating within their building project and it falls to the architect to make this a practical reality. Below is a small selection of typical problems encountered by the architect and some possible solutions.

How do I design a chimney into a property that was built without one? The best place to site a new chimney is at the centre of the property so that maximum benefit is obtained from the heat that is produced and stored within the chimney. However, chimneys can be added onto an external wall or even a party wall.

The chimney itself can comprise ordinary standard density block work with a sectional clay or concrete liner inside, prefabricated casing blocks with concrete or pumice aggregate lining systems inside or, the least expensive option, a prefabricated twin walled and insulated metal chimney system.

A frequent and fundamental error made by the builder is to merely provide a blockwork shell in the full expectation that the addition of a flexible stainless steel liner will create a chimney suitable for a solid fuel appliance. Unfortunately, this

is not acceptable under the Building Regulations. Since the introduction of the 1965 Building Regulations, all chimneys are required to incorporate a proper primary lining such as clay or concrete. It is also important to add an insulating fill of clay or vermiculite granules between liners and block work to keep the chimney as warm as possible and prevent tar and soot deposits building up on the cold walls of the flue. An ordinary concrete fill is not an effective insulator.

Where a new chimney has been built without a liner, this must be rectified. Sometimes it is possible to lower the liner sections down the chimney but it is likely that the chimney will have to be demolished and rebuilt with the liners added as the block work is erected.

With regard to flexible liners, these are classed as temporary and can only be used to repair an existing chimney.

Can I use an external air supply duct kit in lieu of ventilation into the room? Approved Document J calls for sufficient combustion air to be provided into any room containing a solid fuel appliance. A popular misconception (unfortunately reinforced by some manufacturers' spurious claims), is that where an external air supply kit is employed, the requirement for combustion

'Many clients wish to incorporate some form of solid fuel heating within their building project and it falls to the architect to make this a practical reality'

Continued overleaf...





Diagram shows typical internal chimney installation

air has been met and there is no need to provide any additional ventilation. This fails to take into account two important facts; firstly, these ducts and the appliances themselves cannot be classed as room sealed and secondly, the appliance door must necessarily be open during refuelling, which means that unless a minimum velocity of air can be maintained across the mouth of the stove, there is a risk of fume emission into the room.

In a conventionally built dwelling, enough adventitious air may be available into the room to prevent a serious incident occurring. However, as homes become more airtight, the risk of a partial vacuum occurring increases. The SFA would always advise that the correct level of ventilation according to Approved Document J is provided into the room in every case.

Can I site a solid fuel appliance in the same room as a mechanical extract fan? The short answer to that question is “no”. However, there are ways of avoiding the issues or mitigating the effects of extraction systems.

A mechanical extractor will create a depression or partial vacuum within the room it is situated in. This will affect the performance of any chimney which opens into the room and relies on the air pressure being greater at its base than at the terminal to create a natural draught.

One simple solution is to use a recirculating fan, which typically employs a charcoal grease filter. The air is purified by the filter and returned to the room so there is no net extraction of air from the room and consequently no depression created.



The requirements under Part F of the Building Regulations for a minimum number of air exchanges per hour could be met by the appliance flue itself acting as a passive stack ventilator.

Where mechanical extraction is unavoidable, there are ways of mitigating the effects. The size of the ventilator can be increased or its position moved to be as close as possible to the appliance. The effects of extraction on an appliance will also be less marked in a room with a large volume.

Before the installation can be signed off, the installer will need to prove that the flue system is capable of working efficiently with the extractor on full. This is done by carrying out a standard spillage test.

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Highlighting the importance of the room 'stat

Horstmann is enthusiastically endorsing the latest research carried out for the BEAMA heating controls group TACMA, which shows that the installation of effective temperature controls can reduce home heating system energy consumption by up to 40 per cent through the installation of a room thermostat and TRVs. Importantly, it also estimates the installation costs can be recovered in a year or less. Even before TACMA's latest findings were released, Horstmann had revealed that the new installation or upgrading to one of its HRT4 series room thermostats would produce energy savings of 10 per cent and now, endorsed by these latest independent findings, the importance of fitting a 'stat as an integral part of the central heating control system is further highlighted. A recommended upgrade would feature a wireless time switch such as the Horstmann CentaurPlus ZW working in combination with a wireless room thermostat – an HRT4-ZW. Both units use wireless Z-Wave technology ensuring pairing is simple and reliable. The thermostat operates using the latest sophisticated TPI (Time Proportional Integral) energy saving software.

enq.235

New wood burner from Eurostove



The new Westfire Uniq 33 wood burning stove, from **Eurostove**, is a handsome and sleek design that sits above floor level to give a warm visual aspect of the fire and also project the heat more efficiently into the central airspace of the room. Eurostove says that it's important to choose the positioning of the Uniq 33 to create a focal point and also appreciate the glass side panels with dark glass at the base and clear glass at the top so the flames and illumination

can be seen from three aspects. As opposed to open fires, wood burning stoves deliver 80 per cent efficiency with only 20 per cent of the heat vented through the chimney – the opposite performance statistics to an open fire.

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Valor brings 'suite' success



Valor continues to play a key role in assisting Wolverhampton Homes implement an ambitious heating upgrade programme and routine replacements throughout its 23,000 strong housing stock, by supplying a variety of its best-selling electric suites and gas and electric fires. As part of the

'Decent Homes' programme, customers are encouraged to choose from two of Valor's best-selling electric suites – Medway and Teviot Longlite – as such choice serves to increase their overall satisfaction. For routine replacements, Valor also supplies its Blenheim and Seattle Longlite electric fires, as well as its energy efficient Firelite and Brava radiant gas fires.

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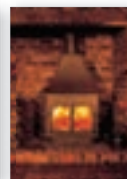


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Amwell fits-out London's sought-after Howick Place

Within London's sought-after area of Victoria is situated the architecturally cutting edge commercial and residential development, Howick Place.

This 143,000sq ft of Grade A office space and 23 luxury apartments is a flagship development by joint developers Doughty Hanson & Co and Terrace Hill Group PLC. The building is modern, stylish and full of light due to its impressive floor to ceiling windows delivering a perfect working space for the luxury brands it has already attracted.

Responsible for the impressive design are Rolfe Judd Architects, who not only wanted to create an exterior that was visually stunning but also an interior that showcased modern design at its best. This inspirational working environment had to make an immediate impact with potential occupant's right from the moment they step in to the expansive reception area to rinsing their hands in the washrooms. To help achieve this Rolfe Judd appointed Amwell Systems to supply and install its modern and luxurious washroom products so the building represents the highest quality craftsmanship throughout.

When discussing the importance of a quality washroom fit-out, project architect Andrew Wall said: "Our clients are becoming increasingly concerned with the quality of their washroom facilities. More and more people are cycling to work in the city and so we needed washroom and changing areas that met our client's high standards."

Amwell's real wood veneer Sytan cubicles were specified for the washroom cubicles. With 44mm real wood veneer doors and totally invisible fixings Sytan was the perfect choice for this project given that quality was such an important factor.



"We were very impressed with the Sytan system," Wall continued. "We needed a totally bespoke system and Sytan gave us just that. We needed flexibility from our cubicle choice so we could achieve the level of detail required for this project."

Offset against contemporary limestone vanity units, also supplied by Amwell Systems, the cubicles give the perfect contrast between the traditional and the modern, a consideration that was key for Rolfe Judd throughout the project. Wall added: "With Amwell's products we were able to achieve a design that was crisp, clean and understated whilst still maintaining a feeling of warmth."

To further enhance this cutting edge design, glass duct panels were also installed in the washrooms. Fully aware that accuracy and precision was critical to the build, Amwell Systems ensured due care and attention was paid when installing all products but particularly when dealing with this delicate and intricate design element.

Glass was also used in the shower and changing area. Amwell's Minima cubicles in Alpine glass were specified for the 12 shower cubicles and look stunning against Minima's sleek stainless steel aluminium frame. These modern, angular cubicles, coupled with the welcoming warmth of the real wood veneer lockers, certainly ensured that Rolfe Judd was able to meet its design brief set by the client to go "above and beyond".

'Not only did they want to create an exterior that was visually stunning but also an interior that showcased modern design at its best.'



For further information on any of Amwell's products call their helpful team on 01763 276200 or visit the website www.amwell-systems.com

enq.243

Rada makes Sense for Aintree Hospital Trust



Rada is supplying its Rada Sense clinical washroom controls to Aintree University Hospital NHS Foundation Trust in Liverpool. UK Healthcare approved Rada Sense Washbasin and Rada Sense Shower concealed digital mixing valves are being installed in a number of wards at the teaching hospital. Designed to meet the compliance needs of the most demanding healthcare settings, Rada Sense combines hygienic non-touch control of both

On/Off and temperature with programmable maximum, minimum and default temperatures. It allows for the highest standards of washroom hygiene, assisting in the control of Legionella bacteria with key features including automatic 'duty flushing'.

enq.244

'Best of the Best' rating for Axor



Products from the Axor Starck Organic collection have won the internationally coveted 'red dot' design award for 2013 in the 'Product Design' category. A total of 4,662 products were submitted, but only 58 had the honour of receiving the highest

accolade rated 'Best of the Best'. Axor, the designer brand of **Hansgrohe** and the French designer Philippe Starck, who developed the collection with Axor, were among the 58 to receive this special distinction. The bathroom mixers from the Axor Starck Organic collection wowed the jury in particular by their unique design and their ergonomically sound operating concept.

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The Optimal Shower Package



Horne Engineering Ltd, expert in temperature control since 1909, holds a strong and long established reputation for product quality and design innovation.

The Dušo shower column is Horne's latest design specifically intended for group shower installations in schools, community leisure and team sport facilities, including poolside and outdoor environments.

The Dušo is without equal in terms of its aesthetic appeal, ease of installation and enhanced functionality. Four colourways provide additional visual impact to set off or complement the interior design.

The interchangeable coloured components can also be used in a practical sense to denote a cooler shower, offer a visual aid to users with limited sight or indicate a particular stage of a prescribed cleaning regime.

The Dušo also excels in its durability and ease of maintenance – come to Leisure Industry Week and visit Stand L221 to see just how good the Dušo is.

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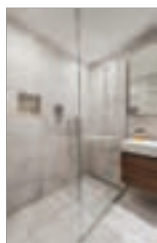


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On The Level – bespoke wetrooms



On The Level is the only manufacturer who can produce bespoke wetroom solutions in any size or shape. On The Level underfloor wetroom trays are precision engineered in 24mm birch ply which means the trays are extremely strong, but light and easy to handle and can be readily shaped on-site and screwed into position. They are an essential part of the wetroom because they dictate the gradient of the tiled floor in the shower area and it is this gradient that allows the water to drain away quickly. The trays also provide

support around the drainage system under the floor and add strength. On The Level trays are guaranteed for 25 years.

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Kubex UK Ltd has been producing shower pods for over 20 years. A family runs business, it is now operating under managing director Anthony Cook. Mr Cook states "We have developed a fine reputation for a quality product at a great value for money. The range of shower pods is available via a network of stockists and retailers throughout the UK." The latest addition to the range is the Eclipse 800. The Eclipse range arrives as an easily assembled and installed sectional pod, which, once in situ, offers a reassuringly low maintenance

shower area that requires no tiling or grouting. A high gloss finish and smooth curved lines allow for easy cleaning.

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Yeoman Shield retains CHAS accreditation



With over 45 years' experience, a wealth of knowledge and the widest choice of products on the market today, Yeoman Shield has once again retained its CHAS (The Contractors Health & Safety Scheme) certification 'mark'. CHAS is established as the market leader for health and safety pre-

qualification in the UK. It is available to suppliers (those who provide goods and services) and to organisations (buyers) looking for suitably competent suppliers. Yeoman Shield has established itself as the UK market leader in the supply and installation of wall & door protection products and is at the heart of front line defence when it comes to savings on repair and redecoration.

enq.254

Encasement chosen for new Hove town hall customer services centre



Bespoke 'Forma' aluminium column casings from Encasement have been used to conceal interior structural columns at the new customer services centre in Hove Town Hall. All of the casings supplied and installed by Encasement are finished in RAL 5015 Blue PPC finish and stand 2,700mm high, however two of the casings are designed to not only conceal structural columns, but also act as features within the building. While the standard casings used on the project are 600mm diameter circular casings, the two feature column casings were manufactured as two semi-circular halves, which are joined by a recessed black coloured panel on each side to give a final diameter of 1,600mm. Every column incorporates a matte black skirting collar, which integrates with the finish on the contrasting magenta coloured reception desks within the main area, while the top of the columns finish flush with the suspended ceiling. The Hove Town Hall facility is one of two customer services run by Brighton & Hove Council with the other being located at the five-storey Bartholomew House in Brighton, where Encasement also supplied a series of bespoke column casings for the £1.8 million refurbishment project. Encasement's MD, Martin Taylor, explained: "It has been great to be involved in both the Brighton and Hove customer service centres. The interiors of the buildings are tailored to the needs of local people and the space available in each location."

enq.255

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Lorient's new AURA® range

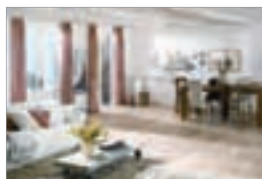


For almost 35 years, Lorient has been designing and manufacturing the highest quality sealing systems for performance doors across the world. Today Lorient is unveiling a new and exciting range of contemporary architectural seals under the brand name of AURA®. The AURA® range embraces a discerning selection of drop seals, perimeter seals, door bottom seals, threshold plates

and ramps – all with strong design accents. Every detail of the AURA® product range is considered and designed to integrate more successfully into beautifully designed doorsets and floors. Specialist finishes are available for complete design freedom – with luminescent options for enhanced safety; and bespoke finishes to complement a wider colour palette.

enq.257

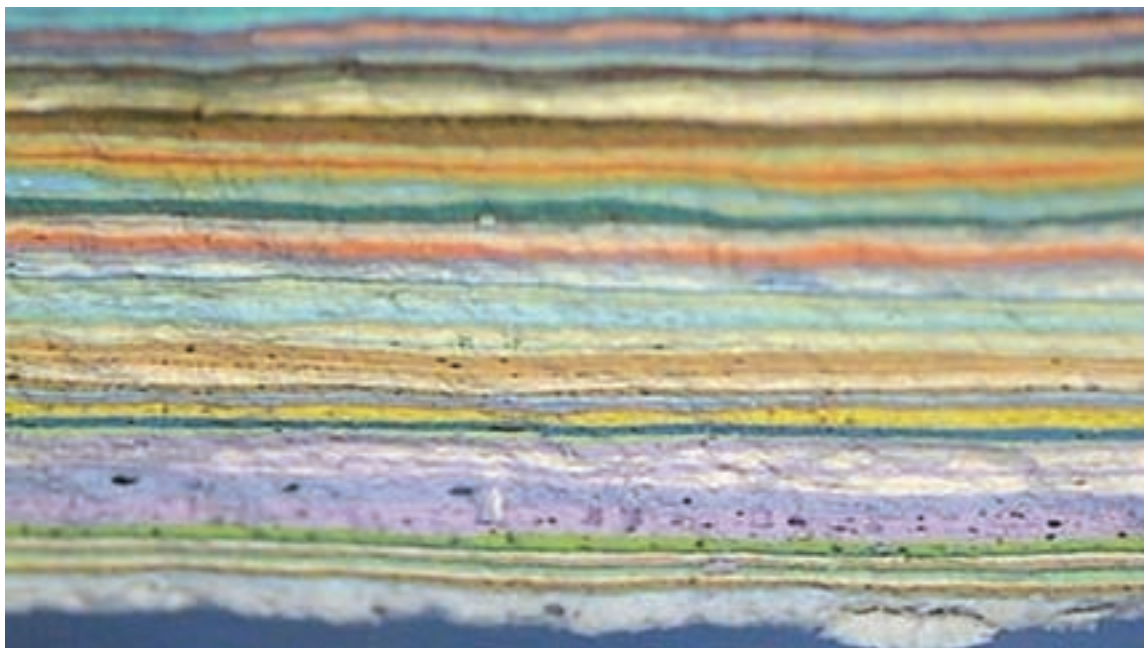
Natural interiors with Osmo



Wooden flooring remains both a stylish and practical solution for modern interiors, but requires a protective finish. Osmo UK provides a sustainable finish specifically formulated to combine perfect protection and creative design. One of the most attractive qualities of choosing wood for interior appli-

cation is its unique and rustic appearance. Osmo's Polyx-Oil wood finish is designed to accentuate the natural beauty of timber, retaining its organic appearance, while adding comprehensive protection from within. With fashions and tastes continually changing, Osmo has also developed Polyx-Oil Tints which add colour to the original Polyx-Oil line-up.

enq.258



'Flame retardant paints work by limiting the oxygen around the flames through the release of non-combustible gases'

Specifying historic shades with flame retardant protection

When choosing paint for historic buildings, specifiers can choose products that offer a double duty, with high technology flame retardant paints available in historic colour palettes. Debbie Orr, Crown Trade brand manager gives an insight

Protecting heritage properties needs to go more than skin deep. With flame retardant coatings in historic shades, it is possible to achieve an authentic look for period properties with the reassurance of a high technology formulation designed to buy precious time to protect life and property.

Over many years, a build-up of multiple layers of conventional paint over any surface can become a significant fire risk, particularly in corridors, stairwells and other areas forming part of a fire escape route.

Flame retardant paints work by limiting the oxygen around the flames through the release of non-combustible gases, and providing a barrier to the flammable paint layers or substrate beneath.

Debbie Orr, Crown Trade brand manager, said: "With the preservation of historic and prestigious buildings so important, flame retardant systems offer a double duty – delivering a surface in-keeping with the décor of the interior environment, in a coating that slows down the spread of flame.

"Ultimately specifiers can depend on colour expertise and have complete confidence in the authenticity and accuracy of historical colour palettes, while at the same time benefitting

from the very latest advances in coating technology.

"Depending on the nature of the renovation project, property owners or managers wishing to specify the application of flame retardant coatings can have an assessment of the age and condition of the existing painted surfaces.

"This can include taking away a sample of the existing paint covering away for analysis, as this will show what coating system needs to be applied to offer the optimum protection."



Multiple layers of paint shown here under the microscope (top). These can present a significant fire risk, which is reduced with the use of flame retardant coatings; specialists take a sample flake of existing paint build-up away for microscopic analysis, to ascertain the most appropriate coating system needed to offer the optimum flame retardant protection (left)

enq.259

Vicaima improves HD interior door acoustics



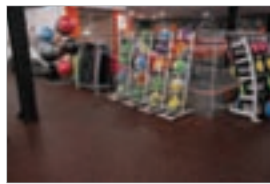
Vicaima's HD interior door has just been awarded an improved acoustic rating, from tests conducted at Lorient acoustic transmission laboratory, which now makes it a strong contender where high acoustic ratings are required, in hotels and schools for instance.

This is the identical door which is used in

Vicaima's Portaro 30 minute acoustic and fire door sets which are specifically designed for hotel developments, where exceptional acoustic and fire attenuation properties are an integral part of this wide range of door kits. The improved acoustic rating has been achieved through the superior and robust construction of the door panel which has a very high density core and double frame.

enq.260

Easy performance



Jaymart: Bladerunner is an exceptionally hardwearing compressed rubber safety flooring which offers high underfoot comfort and warmth, substantial sound absorbency, excellent colour fastness and ease of installation. Bladerunner is easily able to withstand heavy equipment and high impact shocks such as

dropped weights, golf spikes or ice skate blades. Bladerunner is manufactured using up to 80 per cent recycled granulate or crumb rubber, is environmentally friendly and can be recycled yet again! Suitable for use at gymnasias, swimming pools, changing rooms, car showrooms, football clubs etc. Photo shows Bladerunner installed at easyGym.

enq.261

Schueco Jansen expands range with introduction of unlatched fire doors



UK steel systems specialist, **Schueco Jansen**, has significantly expanded its range of fire protection solutions with the introduction of two Unlatched Steel Fire Doors. Compared to traditional timber fire doors, these superbly engineered steel framed doors offer the advantages of slim sightlines, fully glazed leaves and a high level of performance, making them ideal for public-access locations such as hospitals, hotels and schools. The doors are available in two ranges, Jansen Economy 60 E30 and Janisol 2 EI30. They operate without lever handles and are equipped with a bi-metallic latch that reacts to the heat from a fire, causing a pin to expand and retain the leaf in place. They can be colour-coated to match the decor of the building in which they are installed and can be specified in both single- and double-leaf versions, either as stand-alone door-sets or as part of a glazed fire-resisting screen. Associated fittings include a variety of glazing options, hinges and integral door-closing devices. Having undergone a Field of Application Assessment by International Fire Consultants Ltd, both systems have been assessed to EN 1634, meaning that they comply with all existing statutory legislation.

enq.262

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Birmingham's gateway and Schlüter-Systems

The busiest train station outside London has received a £600 million facelift, with **Schlüter-Systems'** first-class products specified for the new flooring that will be used by over 140,000 commuters every day. With such a large surface area to cover, the project's architects specified the market leader in tile protection, Schlüter-Systems, to ensure passengers experienced an environment that was not only modern and pleasant, but also secure and protected. Installing hundreds of movement and expansion joints, products from the Schlüter®-DILEX range provided the perfect solution for secure edge protection for a surface such as the station's tiled flooring. Exposed to continuous pedestrian traffic each day, the flooring is protected from any movement by using the stress-relieving expansion joints of the Schlüter®-DILEX range, providing practicality while retaining an aesthetically pleasing design to fit in with the Birmingham's new modern design.

01530 813396 www.schluter.co.uk

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A5000 vertical platform lift – The perfect combination of design and engineering

When Axess4All was approached to fulfil New College in Pontefract's requirement for a solution that would provide improved accessibility throughout their new, £2 million state-of-the-art Performing Arts Centre, Axess4All was happy to help.

The solution needed to not only provide the practical benefits of improved access throughout the building for students, staff and visitors, but to also complement the buildings stunning architecture and impressive design, which includes a contemporary glass frontage.

The A5000 vertical platform lift was the perfect solution. The chosen specification included an uprated load capacity from the standard 400kg to 500kg, ensuring that the lift was suitable for multiple use. The A5000 is a popular choice of lift for both industrial and commercial use and the selection of a platform size of 1,100mm wide x 1,500mm long ensured that the solution provided was fully DDA compliant.

The A5000 was installed to travel over three floors at a distance of over 7m, the maximum travel distance for the A5000 is 13m.

Supplied with a steel shaft as standard, the opportunity was



taken to add fully glazed sides to the normal steel shaft to accommodate the aesthetic preferences for the lift. This complements the impressive glass front of the new building and fills the lift with natural light. The A5000 combines the luxury of a smooth ride, with a stylish appearance, making this the perfect solution to fulfil both practical and aesthetic requirements.

There was the additional requirement to provide a solution that would enable wheelchair users full access around the split-level first floor. The chosen solution was the A2000 step lift, which is suitable for both internal and external applications.

**Contact Axess4All
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Create with Ted Todd

Celebrating 20 years in the industry, one of Europe's leading hardwood flooring manufacturers, **Ted Todd**, is taking bespoke design to a new level with the launch of Create on September 2. New to the hardwood flooring industry, Create is an innovative programme using CAD technology and provides designers with a simple solution to offer over 30,000 combinations of luxury hardwood flooring to meet the customer's exact specifications. The easy-to-use system is accessed via the website and offers a straightforward three stage process. Once the interior has been chosen, the designer picks from a huge selection pattern choices constructed of three components – block, plank and square and then there are 10 tone options to choose from for each component to complete the exclusive design. Designed and manufactured by Ted Todd experts, the intricate detail ensures the end product is 100 per cent hardwood. Each component is 15mm thick making the floors suitable for commercial and domestic applications.

01925 283 000 www.tedtodd.co.uk

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Two modern oaks with linear textures

Renolit Cramlington Ltd is pleased to announce the introduction of a new linear Oak – Brabant in to the Renolit 3D stock range. Available in two colour ways with different structured surfaces they offer quite diverse options in the popular oak category. Renolit Alkoren Brabant A 46772 – this mid-coloured Brabant A has a classic oak colour that is complemented with Renolit's Woodtex lightly structured emboss, which gives the design a finely sanded feel. It has been matched to the Egger Natural Flandern Oak H1370 ST10. This versatile design suits both kitchen and bedroom furniture in equal measure. Renolit Covaren Brabant B 46773 – this second Brabant is a paler colour which is finished with the more deeply structured Linea emboss to give a fresh and modern design to suit many different styles of door. The design, colour and texture match Kronospan's Rijeka Oak D5502.

01670 718122 www.renolit.com/design

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For further details contact Lesley Mayo on lesley@netmagmedia.eu and for tickets, visit:

<http://netmagevents.eventbrite.co.uk/>

N10 launched on Moores website



Moores' website is continuously being developed so our customers can access all the latest product news and information. With architects and specifiers in mind, the company has added a new N10 Specifier Services page to the social housing section. This has been designed to make specifying the right products much easier. With the four

different N10 specification documents available to download instantly, users just have to copy and paste the relevant information into their own specification documents. In addition to this, there is now a 20 year guarantee offered on all Moores social housing kitchen ranges.

01937 842394 www.moores.co.uk

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www.adf-news.blogspot.co.uk

Promat extends fire-rated glass capabilities



Promat UK has acquired the operations of Yorkshire-based C3S Securiglass, a major supplier of fire-resistant, safety, security and blast-resistant, glazing. Securiglass supplies a wide range of glass and related products for safety and security applications, including products that are resistant to attack by fire, ballistics and explosion. These include laminated glasses for integrity and insulation applications, as well as its Smokestream glazed smoke curtain system. "This is excellent news for Promat," comments Promat's strategic business development manager, Ian Cowley.

01344 381350 www.promat.co.uk

enq.271

Aico specified following review of alarms



Nottinghamshire's A1 Housing has announced its decision to install Aico Ei160RC Series alarms into its flats, in light of a fire safety review following the tragic Lakanal House tower block fire in London. Ei160RC alarms from Aico are mains powered with high performance 10 year+ rechargeable Lithium cells, which provide over six months back-up power in the event of a mains failure. Ei160RC alarms do not require battery checks or replacements and eliminate the risk of battery removal, which makes battery-only powered alarms inoperable. In addition to the Ei160RC Series alarms, A1 Housing is fitting Ei170RF alarms for the hearing impaired into properties home to tenants with hearing difficulties.

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Combined cladding and barriers for safe parking and good looks



The new Thames Valley Police Base at Taplow in Berkshire includes a two storey concrete car park for both fleet and commuter parking. TTSP Architects specified **Berry Systems** spring steel mounted safety barriers for perimeter edge protection and made this decision early enough for Berry to demonstrate that their Protecta-Clad system could be used to combine the barriers, the cladding and the fencing thereby saving components and installation time. Protecta-Clad was developed to take advantage of the installation process for safety barriers. The base plates of the spring steel buffers are extended to carry the mounting brackets for the cladding and, at Taplow, were also used to support the fencing posts. Installation of the cladding and fencing was achieved from the deck, disposing of the need for cherry pickers or scaffolding. The barriers also provide immediate 'working at height' safety for the installers. Protecta-Clad can be floor or column mounted by utilising brackets cleverly affixed to either the spring steel buffer base plates or the column fixings. These brackets are designed so that the barrier can still absorb energy by deflecting on impact but the cladding is not affected.

01902 491100 www.berrysystems.co.uk

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Latest Fire & CO Safety guide published



Kidde Fynetics has published its updated *Fire & CO Safety in Housing Guide*, reflecting the new Code of Practice for smoke and heat alarms, as well as imminent and recent regulations demanding CO alarms. The comprehensive 2013 Guide aims to help all those involved with housing to understand the very latest requirements for protecting occupants from fire or carbon monoxide poisoning. The new 8-page document is intended for anyone involved with housing – including RSLs and private landlords, housebuilders, developers, architects, surveyors, building control and environmental health officers, electrical contractors and heating installers. It offers detailed guidance on all aspects of smoke, heat and carbon monoxide alarms. The guide also provides an informed commentary and review of the complex combinations of standards, regulations and responsibilities that apply to fire and carbon monoxide. Although subject to separate standards and regulations, the guide argues that there are good reasons for specifiers and housing providers to consider both fire and carbon monoxide risks together. It also presents a compelling case for universal minimum recommendations – set out in the guide – for hard-wired smoke, heat and carbon monoxide alarms to ensure that all requirements are satisfied and responsibilities met.

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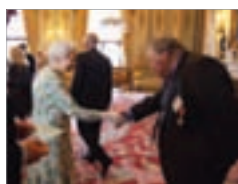
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Osmo UK offers an external wood finish to protect, maintain and restore garden fences. Osmo's Fence and Garden Stain restores the natural beauty and character of the wood, leaving it looking in top condition all year round. Fence and Garden Stain is an easy to apply finish that emphasises the texture and grain of the wood in either natural chestnut or pale green. Not only does the stain maintain the wood's original look, the micro-porous formula will not crack, flake, peel or blister, creating an exceptionally durable finish. Osmo's Fence and Garden Stain not only provides a UV protection, it is also water and weather resistant, making it suitable for all climates.

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Winn & Coales meets the Queen, again!



On July 23, both the chairman and non-executive director of Winn and Coales International Ltd, David Winn OBE and John Burton attended a special reception at Buckingham Palace to meet Her Majesty The Queen. This special occasion was in honour of the company's latest achievement winning the prestigious Queen's Awards for Enterprise, for the second time. Manufacturers of anti-corrosion and sealing products, Winn and Coales International, won the award again for International Trade. This award recognises the outstanding overseas trade, measured over the past three years.

Enterprise, for the second time. Manufacturers of anti-corrosion and sealing products, Winn and Coales International, won the award again for International Trade. This award recognises the outstanding overseas trade, measured over the past three years.

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