

# building construction design

[www.buildingconstructiondesign.eu](http://www.buildingconstructiondesign.eu)

Industry News  
Appointments & News  
Planning & Design  
Groundworks  
Structural Elements  
External Envelope  
Insulation  
Heating, Ventilation & Services  
Interiors  
Safety & Security  
Landscaping & External Works  
Eco

December/January 2014



# Active Ventilation for Active Minds...



## Introducing the New Passivent Active Range The Energy Efficient Mechanical Compliment to Natural Ventilation.

The new Passivent Active Range is the cost effective solution for your Priority Schools Ventilation requirements.

Meeting the demand for naturally ventilated spaces to provide mixing of ventilation air with room air, avoiding cold draughts during winter time.

Features include:

- Mixing of incoming air, avoiding draughts
- Reduces heating energy bill through heat recovery
- Fan Boost facility in Summer to avoid overheating
- Secure night cooling in all weathers
- Incorporates SoundScoop® acoustic technology meeting the requirements of BB93
- Available for atrium and roof terminal applications

For more information visit [www.passivent.com](http://www.passivent.com)  
or call 01732 850770



*Active Roof Terminal  
(Patent applied for)*



*Active Atrium  
Transfer Unit*

## contents Dec/Jan 2014



23

### features

- 15** **PLANNING & DESIGN: FINANCE & INSURANCE**  
**Guide to insurance cover for self builders**  
By Ed Bidwell of Evolution Warranties
- 19** **GROUNDWORKS: FLOOD CONTROL**  
**Flood mitigation for the future, today**  
By Katherine MacBeth, marketing executive at UK Flood Barriers Ltd
- 23** **EXTERNAL ENVELOPE: EXTERNAL CLADDING & FACADES**  
**Well-insulated and perfectly ventilated**  
By William McDowell, business director, UK & Ireland at ROCKPANEL
- 35** **INSULATION**  
**Fire in cavity walls: Regulations and solutions**  
By Tom Foster, senior product manager at Isover
- 39** **HEATING, VENTILATION & SERVICES**  
**Domestic underfloor heating – warming up homes the right way**  
By Neil Young, applications manager for Indoor Climate, Uponor UK
- 47** **INTERIORS: BATHROOMS & WASHROOMS**  
**Regulating washroom design**  
By Andrew Taylor of Maxwood Washrooms

### news & events

- 4** Industry News  
**8** Events  
**9** CPD Focus

### HEADLINES

- 4** Innovation Centre sparks regeneration
- 5** House buyers create their own 'grand designs' with Hertfordshire developer
- 6** TrustMark tradesmen can help you weather the storm
- 7** Saving history: the importance of preserving Britain's built heritage

### products

- 11** Appointments & News  
**14** Planning & Design  
**18** Groundworks  
**20** Structural Elements  
**22** External Envelope  
**34** Insulation  
**36** Heating, Ventilation & Services  
**43** Interiors  
**55** Safety & Security  
**56** Landscaping & External Works  
**58** Eco



Cover image: © Rockpanel  
See page 23 for details

## Innovation Centre sparks regeneration



A three-storey atrium with breakout spaces, meeting places and exhibition areas forms the natural heart of a new innovation workspace centre in Leicester, known as 'Dock'.

Providing 2,000 sq m of workspace, its design reflects the high-tech location on Leicester Science Park adjacent to the National Space Centre.

Designed by **Maber Architects**, the £5.1 million project has already sparked further development on the innovation park, a significant element in the city's regeneration plans.

Architect Paul East, a director at Maber, says: "We have created an environment where the next generation of technology businesses can work together in open and collaborative

ways. We have just handed the building over to Leicester City Council, and we're delighted that the project is proving to be a catalyst for further regeneration in Leicester."

Dock's design reflects technology, innovation and science – the cutting edge nature of the start-up businesses that it will house. Its airy atrium space is a natural meeting area for the businesses occupying the labs, workshops and offices around it, encouraging interaction among tenants for idea sharing and partnership working. The central atrium also draws air through the building and funnels services to the business spaces, contributing to its achievement of a BREEAM Excellent rating.

## Winner of ROCKPANEL Product Design Award 'Stone becomes Art' is announced

Under the title 'Stone becomes Art', the winner of the first European-wide ROCKPANEL Product Design Award was announced at the official opening of the new production facility in Roermond, The Netherlands, on 10 October. During the summer, ROCKPANEL, the facade panel manufacturer invited architects, planners, product designers, specialists in related disciplines and students to design a new, unique and creative stone-look product to reflect the facades of the future. A total of 52 designs were submitted from a wide range of European countries.

The winner of the ROCKPANEL Product

Design Award 'Stone becomes Art' was Roman Baudisch, an architectural technician from Hamburg, with his design 'Volcano'. As well as prize money of €5,000, the winning design will be included in the ROCKPANEL stone range, to be launched for 2015. The 'Volcano' design is now being further developed in close collaboration with the winner until it is ready for production. The design awarded second place, with prize money of €2,000, was created by Marit Angenita Otto, a Dutch artist from Zwolle. Third prize was won by the Collective A from Münster, Germany, represented by B.A. Arch Ronny Zschörper and Franziska Adler.

## CPMG-designed BSF schools reach completion

Two new schools designed by Nottingham based **CPMG architects** have reached completion and mark the final stages of Stoke-on-Trent's Building Schools for the Future programme.

The new £20 million, 11,000 sq m Discovery Academy was constructed by Wates Construction. CPMG's design of the two-storey building includes flexible teaching spaces and indoor and outdoor sports facilities, including a multi use games area and an astroturf pitch, which is available for use by local clubs and the wider community.

The main entrance of the building features a dramatic double height 'agora' space. From the 'agora' a clear circulation spine provides horizontal access to all areas of the building while also defining the more public zones from the secure teaching environments beyond. These include communication, numeracy, humanities, sciences and design and technology. Cross school accommodation includes music and drama facilities, a sports hall and associated dance and fitness studios.

CPMG also designed the £12 million Kemball Special School, which was built by award-winning contractor Thomas Vale Construction. This new build 6,200 sq m facility is designed to accommodate 140 pupils with complex cognitive needs.

Kemball has been designed to create an inspiring and stimulating sensory learning environment centred on the idea of inclusion, achievement, creativity and flexibility. CPMG's design incorporates light and airy classrooms designed to offer maximum flexibility with pairs of classrooms arranged around en suite hygiene facilities and a dedicated quiet room for one to one teaching. Shared community areas include sports and dining facilities and a sensory soft play area.

These projects are two of 18 school buildings to receive new and improved facilities in a three-year schedule of work under Stoke-on-Trent City Council's £270 million Building Schools for the Future (BSF) programme.



## House buyers create their own 'grand designs' with Hertfordshire developer

Savvy house buyers are creating their own 'grand designs' by snapping up quality homes from a leading Hertfordshire developer and having them built to their own bespoke requirements. Home seekers are queuing up to buy homes from Taylor French Developments, based in Tring.

Demand is such that the award-winning firm has had to draw up a waiting list to notify disappointed house hunters, who previously missed out on buying one of its homes, about future schemes.

Managing Director Steve French said: "Some people have said to us they want to buy one of our homes and will wait for us to buy land in their area.

"This is very unusual in this climate but what we are offering them is practically a self-build house without the aggravation of having to deal with sub-contractors and suppliers, as we do it for them. It makes sense."

Buyers who exchange contracts at early stages of construction can instruct the architect to make significant changes to the design and specification.

Anyone buying soon will be able to take advantage of Taylor French's bespoke building and design service. Steve believes this service is key to the company's success, as it has seen its turnover double year on year since 2008.

## University of Essex new student accommodation

Uliving and the University of Essex are proud to announce the official opening of The Meadows, a new student accommodation scheme in Colchester. The new student complex situated off Boundary Road, provides an additional 648 student bedrooms for the Colchester Campus and is made up of 19 town houses for 228 students plus en suite

cluster flats for a further 420 students. There is also a social pavilion housing a common room, a launderette and a 'grab and go' shop. The scheme, which includes a mix of concrete, steel and timber frames, was designed by architects Lewis & Hickey with construction carried out by Bouygues UK, beginning in early summer 2012.



## The Saint Martins Lofts revealed

A beautifully considered reinvention of the famed Central Saint Martins building at 107-109 Charing Cross Road, London, this exciting new development is revealed for the first time.

Originally opened as The Saint Martins School of Art in 1939, this iconic building – an eclectic mix of Arts and Crafts and Moderne – has seen some of the world's most talented and creative artists, designers, writers and performers pass through its doors. Sir Terence Conran, Colin Firth, Antony Gormley and Alexander McQueen are just a few among those associated with this well-known institution. It is therefore fitting that award winning architects Lifschutz Davidson Sandilands will be responsible for its reinvention with a design that respects the rich architectural and artistic history of the building while injecting a

contemporary London aesthetic. The Saint Martins Lofts will feature 13 beautifully finished loft apartments with magnificent views over London's West End and towards the Houses of Parliament, developed over the top four floors of the building. From duplexes with impressive double-height spaces flooded with natural light and original style Crittall windows, to lateral apartments with large terraces and penthouses commanding exceptional views over London, each of the generously proportioned residences will have a contemporary loft-style interior, finished to an immaculate standard. The beautifully restored interiors have been skillfully designed by interior architects Darling Associates to create contemporary loft living that maximizes the generously proportioned apartments, complete with every comfort.

***"Every now and again we see a project that will set the market alight; The Saint Martins Lofts is one such project set in London's cultural Soho"***

Alan Cook from Aquila House Holdings



## Reinventing the house of the future

BRE's pioneering future-focused Integer House, built 15 years ago, has undergone an extensive retrofit and renamed The Smart Home. Through a joint BRE and British Gas project, it has been re-equipped with a host of ultra energy-efficient features and functions.

Using cutting-edge technology, design and building techniques, the innovative retrofit has made the house 50 per cent more energy efficient and halved its carbon emissions, upgrad-

ing it from an E to A/B EPC rating.

An intelligent, whole house living system with occupation sensors for a range of purposes controls the heating, lighting, ventilation, water and security. The latest air source heat pump technology has been integrated to provide heating via app-enabled advanced controls, and improvements have been made to the solar thermal water heating and air tightness.

The house has a new-to-market solar thermal

system, and an integrated PV array has been installed into the conservatory glazing to generate most of the home's energy requirements and shade clear glass against excess heat. Innovative, 3mm thick insulating plaster has been applied finished in heat-reflective paint to improve thermal performance, while paint with light-reflective particles on the internal walls increases brightness.

# A futile reform for a pointless outcome

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



A year ago at the Tory Party conference in Birmingham David Cameron hit out at the “yes but no” people: “The ones who say ‘yes, our businesses need to expand, but no we can’t reform planning.’” He pledged to

“cut through the bureaucracy”, with a prime ministerial target of “getting the planners off our backs”.

With promises made, a series of reforms were enacted, designed to help stimulate economic activity and encourage construction work at a local level. One notable reform was to allow bigger home extensions – or as politicians put it “to meet the aspirations of families that want to improve a home”. The proposals were met with a series of responses, mainly negative, from a broad range of the interested parties. The Local Government Association thought it was a “myth” that the planning system was preventing householders from undertaking improvements. Many Tory councils feared this would be a green light to “unsightly and out-of-place development”. However it was the House of Lords fears about a surge in neighbour disputes that prompted a watering down of the proposals before they were finally enacted at the end of May this year.

So have the proposals provided a spur for new applications for house extensions?

Planning Pipe looked at 44,000 house extensions

in the three months before and after the May 30 change across the English regions (where the changes were enacted) and across Wales, Scotland and Northern Ireland (where they were not).

The result? The story of this one reform reveals much about the tensions that surround the UK’s planning system. Stage one started with the principled and understandable desire of the politicians to cut planning red tape and promote an individual’s and a community’s freedom to act and innovate. Who, after all, wants a planning officer “on their back”? Stage two carried the broad support into the specific proposals and then into the constricted box of solutions acceptable to industry and the environmental lobby. Who, after all, wants to blight neighbourhoods and set neighbour against neighbour?

The “new, relaxed” rules on house extensions that finally emerged therefore balanced the desires of reformers, while respecting the legitimate concerns of communities. In other words, not wholly dissimilar to what was in place before the whole process started.

In the case of this house extension reform, what we have ended up with is a hybrid of two existing permission regimes – the full planning application process and the Lawful Development Certificate (LDC) process. We still have a 49 page Technical Guidance document to explain whether extensions constitute permitted development. If you live in a flat, maisonette, listed building or anywhere in a conservation area, then you are still unaffected anyway.

It is of course true that applicants will save around

£170 in local authority fees and will wait six weeks rather than eight weeks for a decision. You could argue that any saving in time and money in the planning process is worthwhile. However you can also argue that the juice is not really worth the squeeze. The DCLG forecast, as a result of this relaxation, is that there would be an increase of just 1.7 per cent in the number of house extensions over a 12 month period. So what has actually happened?

Planning Pipe’s analysis shows that in the three months since this reform there has been (due to seasonality) a fall in house extensions across the UK of 9 per cent compared to the three months preceding the reform. Oh dear. That fall has been less in England than in Wales, Scotland and Northern Ireland – which might be interesting – before you then dig deeper and see that in England there is a wide disparity of ups and downs in application numbers across different English regions post reform. Good luck in picking out the 1.7 per cent impact of this reform. In fact the planning statistics are unlikely to tell us anything about the impact of this reform because the reality is that it brought about very little actual change.

This is either a depressing tale of futile attempts to rail against a bureaucratic planning monster or a revealing insight that the planning system is a self-correcting mechanism, honed over many years, that more or less strikes the right balance between delivering regeneration and protecting the environment. Future attempts at impactful reform that genuinely stimulate the construction industry may better be directed elsewhere.

## TrustMark tradesmen can help you weather the storm

After the recent storms battered Britain it has led to many properties needing urgent repair work and TrustMark, the government endorsed quality mark for tradesmen, is urging homeowners to only hire reputable tradesmen to restore any damage to their properties.

The gale force winds has caused considerable damage across the country, whether it be fallen trees, blown down fences, damaged roofs or flooded properties caused by the accompanying heavy rainfall. TrustMark tradesmen are on hand to help as we are the only national ‘find a trader’ scheme that can help homeowners find the right local tradesman.

Stuart Carter, head of marketing at TrustMark said: “Following extreme weather conditions, bogus property repairers often trick people into paying high prices for unnecessary

or shoddy work so I would advise consumers to be extra vigilant and only use reputable tradesmen you know are registered with either TrustMark, which is the only endorsement from government, or a recognised trade association. And never agree to have work done by somebody who turns up uninvited on your doorstep.”

Ray Horwood, chief executive of the National Federation of Roofing Contractors, said: “Our advice to property owners who are concerned about the condition of their roof is to contact a reputable roofing contractor for a proper assessment and, if necessary, to obtain at least three quotes for any works.”

APL Committee Chairman, Mark Gregory, chairman of the Association of Professional Landscapers added: “Old fences, weakened by rot and decay are easily damaged or brought

down by the high winds so employing a landscaper to do repair work on your garden can often be a bit hit and miss with homeowners facing a lottery of companies who promise to carry out the work. Consumers can feel confident that by employing a TrustMark registered landscaper, the quality of work will remain high at all times and that a professional standard will be met.”

TrustMark is the only scheme supported by government, industry and consumer protection groups. It has the support of many partner organisations, including Age UK, Trading Standards Institute and Citizens Advice which are all aiming to raise standards within the industry and provide greater protection for homeowners in their search to find local, quality tradesmen.

# Saving history: the importance of preserving Britain's built heritage

Simon Vernon-Harcourt, design and planning director at City & Country, discusses the importance of preserving Britain's historic properties and the expert skills required to ensure quality restoration of such architectural intricacies



Britain has a wealth of institutional historic listed buildings which reflect the history of our communities and public services. Many of these buildings were paid for by wealthy benefactors, and reflect the pinnacle of artistry and craftsmanship of their time. The need to preserve these buildings is significant, but

in the context of today's economic climate many of these properties – which are notorious for being difficult to maintain and expensive to run – are at risk of being abandoned and quickly falling into a state of disrepair.

Converting these historic properties for residential use is a solution that ensures that their legacy is preserved. Award-winning restoration specialist

City & Country champions this approach and has successfully transformed a number of prestigious sites across the south and south-east of England into fine homes.

The first step to restoring a heritage building is properly understanding it. Architectural historians delve into the building's records to discover the architectural and social history of the building, to identify which features should be preserved. This enables a scheme to be produced which works with the grain of the building, revealing and enhancing the best elements to create genuinely

unique properties that celebrate the architectural quality and history of the building.

Historic restoration and conversion is highly skilled work and the level of detail required in the conversion of these properties can often cause inexperienced developers to run into significant time delays and cost overruns. Budget management is therefore crucial, and completing these projects on time and on cost requires strict control and whole-team co-ordination from the outset.

The range of unique architectural features on any heritage restoration project is broad, including refined timber sash windows, opulent oak panelling, arched honeycomb ceilings and intricate plaster cornices. Restoration of such a range of features requires a technical and practical knowledge of the traditional construction techniques needed to restore them.

For information on City & Country's portfolio, visit [www.cityandcountry.co.uk](http://www.cityandcountry.co.uk)

***'The level of detail required in the conversion of these properties can often cause inexperienced developers to run into significant time delays and cost overruns'***

Simon Vernon-Harcourt

## Northcot Brick features in pioneering art installation

Bricks from Northcot Brick are being used as the centrepiece in the exhibition by Argentinian artist Adrián Villar Rojas at the new Serpentine Sackler Gallery in Kensington Gardens, London. The exhibition, *Today We Reboot The Planet*, which runs until November 10, is the first of a number of cultural events taking place as part of the opening of the newly restored and expanded art gallery.

Northcot Brick has supplied 45,000 facing bricks for an original site-specific art installation, which will see the entire interior floor of the gallery covered in bricks. In this installation, the artist re-imagines the architecture of the Grade II\* listed building, formerly an 1805 ammunitions store known as The Magazine, and responds to the original brick vaulted Powder Rooms that sit at the centre of the building.



Renowned for his large-scale sculptures, made in predominantly clay and brick, Villar Rojas draws much of his inspiration from the rawness

and immediacy of traditional handmade brick-making, which takes place on the brick farm in his hometown of Rosario in Argentina.



# Events

## AWARDS

### Royal Gold Medal Lecture 2014:

Joseph Rykwert

24 February, London

[www.architecture.com/whatson](http://www.architecture.com/whatson)

### Royal Gold Medal & Fellowships Dinner 2014

25 February, London

[www.architecture.com/whatson](http://www.architecture.com/whatson)

### Greenbuild Awards

7 May 2014, Manchester

[www.greenbuildawards.co.uk](http://www.greenbuildawards.co.uk)

### British Homes Awards

20 June, London

[www.britishhomesawards.com](http://www.britishhomesawards.com)

## CONFERENCES & SEMINARS

### New garden cities: responding to the Wolfson Economics Prize

28 January, London

[www.buildingcentre.co.uk/events](http://www.buildingcentre.co.uk/events)

### Delivering new housing models for London

12 February, London

[www.newlondonarchitecture.org/events.php](http://www.newlondonarchitecture.org/events.php)

### Growing Communities: Meeting the Housing Challenge

25 February, London

[www.buildingcentre.co.uk/events](http://www.buildingcentre.co.uk/events)

### National Affordable Housing Conference 2014

18 March, London

[www.affordablehousingevent.com](http://www.affordablehousingevent.com)

### London Resi Development

19 March, London

[www.londonresidevelopment.com](http://www.londonresidevelopment.com)

### CIH Conference & Exhibition

24 - 26 June, Manchester

[www.cihhousing.com](http://www.cihhousing.com)

## EXHIBITIONS

### Don't move, improve!

Until 6 February 2014, London

[www.newlondonarchitecture.org/exhibitions](http://www.newlondonarchitecture.org/exhibitions)

### Pop Art Design

Until 9 February 2014, London

[www.barbican.org.uk/artgallery/event-detail.asp?ID=14797](http://www.barbican.org.uk/artgallery/event-detail.asp?ID=14797)

### MIPIM

11 - 14 March, Cannes, France

[www.mipim.com](http://www.mipim.com)

### The Brits Who Built The Modern World

13 February - 27 May, London

[www.architecture.com/whatson](http://www.architecture.com/whatson)

### New British Works: Today - Tomorrow

13 February - 27 May, London

[www.architecture.com/whatson](http://www.architecture.com/whatson)

### Empire Builders: 1750 - 1950

30 November - 15 June, London

[www.architecture.com/whatson](http://www.architecture.com/whatson)

## FESTIVALS

### Wondercool

February 2014, Copenhagen

[www.wondercoolcopenhagen.com](http://www.wondercoolcopenhagen.com)

### Clerkenwell Design Week

20 - 22 May 2014, London

[clerkenwelldesignweek.com](http://clerkenwelldesignweek.com)

### The International Festival for Business (IFB) 2014

June - July 2014, Liverpool

[www.ifb2014.com](http://www.ifb2014.com)

## SHORT COURSES

### Drawing Gymnasium - Winter 2014

3 February 2014, London

[www.buildingcentre.co.uk/events](http://www.buildingcentre.co.uk/events)

## TALKS, LECTURES & DEBATES

### NLA 2014 Briefing - on the planning policies, developments & opportunities that will take centre stage this year

31 January, London

[www.newlondonarchitecture.org/events.php](http://www.newlondonarchitecture.org/events.php)

### Perspectives on Architecture: Architectural Space in the Work of

Ernö Goldfinger

11 February, London

[www.architecture.com/whatson](http://www.architecture.com/whatson)

### Peter Milo Memorial Lecture 2014

11 February, London

[www.architecture.com/whatson](http://www.architecture.com/whatson)

### The Universe in the Landscape

27 March, Newcastle

[www.architecture.com/whatson](http://www.architecture.com/whatson)

## TRADE SHOWS

### Retrofit Roadshows

11 February 2014, Dartford

18 February 2014, Nottingham

Spring 2014, Bath/Bristol

Spring 2014, Glasgow

[www.retrofit-roadshow.co.uk](http://www.retrofit-roadshow.co.uk)

### Surface Design Show

4 - 6 February 2014, London

[www.surfacedesignshow.com](http://www.surfacedesignshow.com)

### Housing Expo

11 - 12 February 2014, London

[www.housing-expo.co.uk](http://www.housing-expo.co.uk)

### UK Concrete Show

27 - 28 February 2014, Birmingham

[ukcs2014.businesscatalyst.com](http://ukcs2014.businesscatalyst.com)

### CIH in Northern Ireland Housing Awards 2014

28 February, Belfast

[www.cih.org/eventsfinder/](http://www.cih.org/eventsfinder/)

### kbb Birmingham

2 - 5 March 2014, Birmingham

[www.kbb.co.uk](http://www.kbb.co.uk)

### Ecobuild

4 - 6 March 2014, London

[www.ecobuild.co.uk](http://www.ecobuild.co.uk)

### National Homebuilding & Renovating Show

27 - 30 March, Birmingham

[www.homebuildingshow.co.uk](http://www.homebuildingshow.co.uk)

### Sustainability Live [including NEMEX, ENERGY RECOVERY and IWEX]

1 - 3 April 2014, Birmingham

[www.sustainabilitylive.com](http://www.sustainabilitylive.com)

### Grand Designs Live

3 - 11 May, London

[www.granddesignslive.com](http://www.granddesignslive.com)

### Greenbuild Expo

7 - 8 May 2014, Manchester

[www.greenbuildexpo.co.uk](http://www.greenbuildexpo.co.uk)

### Design in Mental Health Conference & Exhibition

13 - 14 May 2014, Birmingham

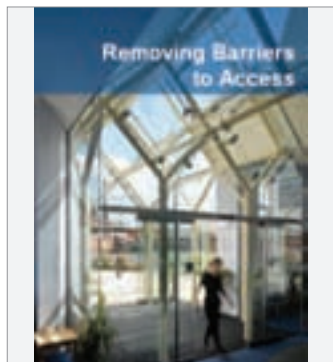
[www.designinmentalhealth.com](http://www.designinmentalhealth.com)

### The Eco Technology Show

26 - 27 June 2014, Brighton

[www.ecotechnologyshow.co.uk](http://www.ecotechnologyshow.co.uk)

### REMOVING BARRIERS TO ACCESS



Approved by RIBA, the seminar from **GEZE UK** offers chartered architects advice for the use and specification of door control devices so that doors do not become obstacles. It has been completely rewritten to incorporate all the recent changes in legislation. Those taking part will receive guidance on all the relevant standards and regulations that apply to manual and automatic doors in relation to accessibility.

01543 443000  
www.geze.co.uk

### WOOD CEILINGS: THE BEAUTY AND BENEFITS



**Hunter Douglas** has received accreditation from RIBA for a CPD presentation entitled *Wood Ceilings: The Beauty and Benefits*. The presentation is designed to help architects and specifiers gain a clearer understanding of how such a traditional building material translates to contemporary design and architecture. It covers the aesthetic and practical uses for wood and the wide design flexibility available to the specifier.

01543 275 757  
www.hunterdouglas.co.uk

### NEW CPD LAUNCHED BY FRANKE WASHROOM SYSTEMS



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

ws-marketing.gb@franke.com

### CREATIVE USE OF DESIGN SPACE IN FURNITURE



**Hettich UK's** new CPD, *Creative use of design space in furniture*, is based on its expertise on innovative furniture fittings which maximise use of space. Hettich shows how fitting solutions can address design challenges in residential and commercial environments, particularly where space is at a premium. Hettich complies with European eco-management and audit scheme EMAS. It is quality assured to ISO9001 and environmentally assured to ISO14001.

0161 872 9552  
www.hettich.com/ukadhesives.comiers/cpdSeminars

### RADIANT HEATING & COOLING AND HEAT RECOVERY VENTILATION



**Zehnder's** RIBA-accredited CPDs include: *The Radiant Heating and Cooling* CPD, which examines the energy-saving technology further and explains the benefits the system can offer. Learning objectives include: an understanding of radiant heat and how it works; how resultant/perceived temperature affects us; the features and benefits of radiant heating; comparisons between radiant and convective systems; how radiant panels are made; their performance and the applicable specification; basic system design considerations; an understanding of good and bad practices; and the concept and technicalities of radiant cooling.

*The Heat Recovery Ventilation* CPD explains everything you need to know about heat recovery ventilation in order to successfully specify it in high code level homes and Passivhaus projects. Learning objectives include: understand what heat recovery ventilation is; understand what constitutes a High Code Level House and Passive House; understand why heat recovery ventilation is needed; be able to identify which features are necessary in order to achieve High Code Level or Passive House status; and be aware of best practice when specifying heat recovery ventilation. CPDs are generally delivered over the course of a lunch hour at your office.

01903 771021  
www.zehnder.co.uk

### THREE WILO CPDS ON OFFER



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

01283 523000  
training@wilo.co.uk

### ADVANCED TECHNOLOGY IN LIQUID WATERPROOFING SYSTEMS



This **IKO** CPD enables specifiers to learn about the benefits of using the latest liquid waterproofing technologies designed to meet the needs of modern construction. It covers key applications including roof, balcony and walkway, external cladding, car park and glass protections. The seminar also covers the latest technological developments in advanced liquid waterproofing systems.

01257 488011  
www.ikogroup.co.uk



# ecobuild

04-06 March 2014 • ExCeL London



# DISCOVER THE FUTURE

**10 years of championing a greener built environment**

- 1,000 exhibitors showcasing the biggest range of sustainable construction products in the world
- Six new content zones hosting Ecobuild's unrivalled seminar programme
- Two conference arenas bringing over 600 industry experts, ministers and global academics to the heart of the exhibition floor
- Over 100 conference and seminar sessions, drop in advice clinics and live product demonstrations
- Dozens of features and attractions

**Register for your free ticket: [www.ecobuild.co.uk](http://www.ecobuild.co.uk)**

INTERNATIONAL PORTFOLIO

**ecobuild**

China

31 March–03 April 2014, SNIEC, Shanghai  
[www.ecobuildchina.com](http://www.ecobuildchina.com)

**ecobuild**

India

9–10 May 2014, Nehru Centre, Mumbai  
[www.ecobuild-india.com](http://www.ecobuild-india.com)

**ecobuild**

Southeast Asia

17–19 Sept 2014, PWTC, Kuala Lumpur  
[www.ecobuildsea.com](http://www.ecobuildsea.com)

GOVERNMENT PARTNER

LEAD PARTNER

RESEARCH & INNOVATION PARTNER

LEAD SUPPORTERS

OFFICIAL CHARITY

ORGANISED BY



the mark of  
property  
professionalism  
worldwide



## A&G – a BIM first



Acheson & Glover (A&G), a manufacturer of premium quality hard landscaping and precast concrete products, has proudly announced it is the first hard landscaping concrete manufacturer to go 'live' on BIM (Building Information Modelling). It aims to host a comprehensive range of systems and products and to become

the primary source of standard and proprietary BIM objects. A&G recognised the growing need for this type of information among designers. A&G Managing Director Stephen Acheson said: "We are delighted to be part of BIM. It provides us with the opportunity to promote our products in an area that will fast become an integral part of the design needs of the built environment."

0845 601 5207 [www.acheson-glover.com](http://www.acheson-glover.com)

## Yacht challenge sponsored by ATAG Heating



Fine weather, perfect sailing conditions and an excellent turn out by local yacht clubs ensured that the 12th St Wilfrid's Hospice 'Nab' Challenge, sponsored by Chichester-based boiler distributor, ATAG Heating UK and organised by the Inn-Shore Cruising Club, was another resounding success. This popular and unique event has raised over £160,000 for the Hospice and organisers are confident

that this year's event will add thousands more when the final total is calculated. The ATAG Trophy for the individual boat that raised the most money for the charity went to the yacht Merista, skippered by Mark Taylor of the ISCC.

## Finalist in 3 categories and a win for Avonside



Avonside Group Services entered the Celebrating Construction in South Yorkshire Awards for the first time and, having achieved a hat-trick of finalist listings, it went on to win the Innovation Award for the groundbreaking RoofSpace I-Roof™ system, designed, developed and manufactured by Group company,

RoofSpace Solutions. The Innovation Award, the latest in a long line of accolades heaped upon the RoofSpace I-Roof™ system, recognises innovation that results in increased competitiveness, performance, durability, safety or economy in the construction process.

0800 731 5982 [www.avonsidegroupservices.co.uk](http://www.avonsidegroupservices.co.uk)

## Farmer Judi James named Worker of the Year



Judi James, a farmer from Littlebredy in Dorchester, has been crowned UK Worker of the Year for 2013 in the competition sponsored by Dickies and Suzuki GB to recognise and reward excellence in the British workforce. Judi claimed a Suzuki Swift as her winner's prize, with highly-commended finalists each awarded £200

in workwear vouchers from Dickies. Dickies is proud to announce that it will again be organising UK Worker of the Year in 2014 as part of its commitment to the British market and the workers for whom the company provides quality, cost effective workwear.

01761 419419 [www.dickieseurope.com](http://www.dickieseurope.com)

## LOFT CENTRE PRODUCTS

## DIFFICULT ACCESS PROBLEM?

OUR LADDERS AND HATCHES  
ARE THE PERFECT SOLUTION

- ▲ Models to suit all spaces
- ▲ Vertical and ceiling access
- ▲ Electric versions available
- ▲ Fire rated hatches



With over twenty years experience and unrivalled technical expertise, Loft Centre Products has developed an exhaustive range of access ladders and hatches for all commercial applications.

Tel: 0845 676 0704 | Fax: 0845 676 0705  
Email: [sales@loftcentre.co.uk](mailto:sales@loftcentre.co.uk)

[www.loftcentre.co.uk](http://www.loftcentre.co.uk)

LOFT LADDERS | SPIRAL STAIRS | LOFT STAIRS  
SPACE SAVERS | ELECTRIC UNITS | HATCHES

## EPIC warns of ADL2014 shortfall



In order to stimulate and maintain the slow recovery of the construction industry, the government has recognised areas that would struggle to achieve greater carbon savings under current circumstances, but at the same time EPIC believes that it now has considerable ground to make up in

order to achieve the targets of net zero carbon construction by 2019 for non-domestic buildings. An aggregate improvement of nine per cent over 2010 standards will be required by ADL2A 2013, ranging from around three per cent for industrial/warehousing to 13 per cent for commercial/offices. EPIC has been part of the government's advisory group for industrial type buildings.

020 8786 3619 [www.epic.uk.com](http://www.epic.uk.com)

## Kingspan first insulation to get BES 6001



The ability to demonstrate responsible sourcing back up the supply chain is becoming increasingly important in today's competitive and environmentally aware market. **Kingspan Insulation** is proud to announce that it is the first insulation manufacturer to be certified to the demanding BES 6001: Responsible

Sourcing of Construction Products standard. All Kooltherm, KoolDuct and Therma insulation products and cavity closers manufactured at Kingspan Insulation's British manufacturing facilities are now certified to BES 6001 'Very Good'.

01544 387384 [www.kingspaninsulation.co.uk](http://www.kingspaninsulation.co.uk)

## Koemmerling joins Cambridge & updates site



Koemmerling Chemische Fabrik GmbH has announced that it is supplying both materials and expertise to support several research projects currently being undertaken by Cambridge University's Glass and Façade Technology Research Group. The Group aims to provide solutions to real world challenges in the field of structural glass and façade engineering through fundamental and application driven research. The work coincides with the upgrading of the company's website

which now includes a new page dedicated to the liquid composite range. It contains images of some of the vast range of applications for which these products are suitable, along with a table that acts as an initial guide for product selection.

01895 465 600 [www.kommerlinguk.com](http://www.kommerlinguk.com)

## ROCKPANEL launches new production line



ROCKPANEL has launched a new production line for its ever expanding range of façade panels. It represents a strategic investment of €23.6 million, and is vital for the company in meeting increasing demand for its innovative products. Managing Director Mark Gerards commented at the official opening ceremony: "The new production line has been constructed in response to the demand from our customers who value the aesthetic and technical aspects and the sustainable characteristics of our products... Today, at 'Sustainability

Day' it is a clear sign of our confidence in ROCKPANEL's future growth plans in which efficient use of raw materials and recycling are of key importance."

01656 863210 [www.rockpanel.co.uk](http://www.rockpanel.co.uk)



# NATIONAL STRUCTURES

Designed • Manufactured • Constructed  
The COMPLETE design & build service

- Canopies
- Tensile Structures
- Main Buildings
- Glazed Canopies
- Entrance Canopies
- Walkways
- Shade Sails
- Cycle Shelters
- Bespoke Structures











Tel: 01772 799222 [sales@nationalstructures.co.uk](mailto:sales@nationalstructures.co.uk)



## Simplifile by Normid

simple to file | simple to find | simple to view



## Plan Filing Solutions

01922 740 015  
[www.normid.co.uk](http://www.normid.co.uk)  
[sales@normid.co.uk](mailto:sales@normid.co.uk)



# Eurobond Rainspan makes winning contribution to Hadyn Ellis Building



**Call Eurobond today on 02920 776677 or visit [www.eurobond.co.uk](http://www.eurobond.co.uk)**

The award winning Hadyn Ellis Building in Cardiff is a striking landmark development that acts as the 'front door' to the University's Maindy Park research campus. The £30 million building is named in honour of the late Deputy Vice-Chancellor, Professor Hadyn Ellis.

Eurobond's Rainspan terracotta architectural facade system is an important part of the project and it was specified for speed of construction. Its market leading environmental credentials helped to ensure that within the materials section of the BREEAM assessment, the building was given an excellent chance of achieving a high rating.

BAM Construction and architects Nightingale Associates, lead contractors on the building, delivered the highest standards of sustainability, both in the design of the building and construction methods. This enabled the building to achieve a high 'A' BREEAM rating of Excellent with an outstanding score of 75.38 per cent that allowed it to win the Higher Education category of the BREEAM Awards for Wales.

Installation of the Rainspan System is fast and easy and the long span capability can reduce second-

ary steelwork requirements and build costs. Thermal efficiency helps to reduce the carbon footprint and it provides 'as tested' air tightness of less than 1m<sup>3</sup>/hour/m<sup>2</sup> – all helping to deliver outstanding BREEAM rated buildings.



## Flooring rivals unite for charity



Two of the UK's leading flooring manufacturers have joined forces to make a donation of £50,000 to Children in Need. Tarkett has teamed up with Polyflor to make the donation and contribute to the record £31 million already raised by the BBC telethon. Jason

Crump, managing director of Tarkett Ltd in the UK and Ireland, said: "Tarkett and Polyflor may be competitors but both companies can agree on the valuable work carried out by Children in Need. Corporate social responsibility is of huge importance to Tarkett and we like to do all we can to support the good work carried out by charities in the territories in which we operate."

01622 854040 [www.tarkett.co.uk](http://www.tarkett.co.uk)

## Silver Cradle to Cradle status for Armstrong



Six months after one of its mineral fibre ceiling tiles was granted basic Cradle to Cradle® certification, Armstrong's Perla OP 0.95 tile, which contains 53 per cent recycled content and is 100 per cent recyclable, is now accredited to Silver status. The tile is part of a development to meet growing customer demand for sustainable products. With certification already becoming a requirement for building projects in parts of America and Europe, Jeremy Sumeray, Armstrong's senior segment manager said: "To

maintain involvement in the C2C programme we must demonstrate continued progress towards the ultimate goals..."

01895 251122 [www.armstrong-ceilings.co.uk](http://www.armstrong-ceilings.co.uk)



## Schal ensures no energy is wasted

New government legislation brought in earlier this year requires all public buildings over 500 sq m to have a Display Energy Certificate. Schal Sustainability Group has issued a reminder to building managers to make sure they are up to date and compliant to avoid financial penalties. Schal has been offering its DEC service since 2011 and has successfully implemented assessments for clients ranging from the MoD and Land Registry through to hospitals across the UK. Having previously surveyed 85 sites across Oxford for one client, providing certificates and advisory reports for schools and other local government buildings occupied by Oxfordshire County Council, Schal has subsequently ensured another 176 of the client's smaller buildings now requiring DEC are energy assessed and compliant. This totalled 393 certificates in just a three month period, with Schal detailing how each building could reduce its energy use. This will be a benchmark against which clients will realise real energy reductions.

020 8256 4300 [www.schal.com](http://www.schal.com)



## 'Drag and drop' Changing Places

Specification of accessible toilets is now available with just a mouse click through innovations at **Clos-o-Mat**. As a result, specifiers wanting to include the state-of-the-art toilet facility can simply 'drag and drop' the complete drawing and specification criteria into their plans. Clos-o-Mat has further designed the download so that each item within the layout can be individually moved around the space to suit specific project requirements. The Changing Places download compliments those already available on Clos-o-Mat's website, for its Palma Vita and Lima Lift shower toilets. "Specifiers now have a 'one stop shop' for CAD details for disabled toilet facilities in and out of the home," says Robin Tuffley, Clos-o-Mat marketing manager. "The CAD downloads are complimented by a number of relevant white papers, which further give specifiers a quick and easy reference to all appropriate guidelines affecting provision of accessible toilets in public environments, and which are also available for download."

## Evolution Insurance Solutions Ltd



Do you require a structural warranty/latent defect insurance?

**Evolution Insurance Solutions Ltd** is one of the UK's leading brokers, a specialist in the 10 year structural warranty market.

Whether you are managing a self-build or a large scale residential or commercial development, you are likely to require a mortgage compliant warranty and site insurance.

Evolution will be happy to source the right insurance product at competitive rates for you or your client. Please contact Ed or Rob on:

01799 512031 [www.buildingwarranties.com](http://www.buildingwarranties.com)

## Snickers new Rip-Stop winter jacket



Snickers' high-performance work jackets are well-known for their built-in functionality and practicality to make your workday easier. Designed for maximum freedom of movement and made from highly durable and comfortable materials, they feature dirt-repellent fabrics, cordura reinforcement plus easy-access pockets. The new Craftsman's Rip-Stop Jacket is ergonomically designed with pre-bent sleeves. It delivers on-the-job warmth wherever you are on-site and, with its water-repellent fabric and cosy lining, this jacket is great value for money.

Looking for funding?

Davon specialises in structuring funding for residential development in the South of England. We structure all types of funding including senior debt, mezzanine, 90%, bridging and investment.

Call us today to discuss your funding requirements  
0118 978 3955 or visit [davonltd.com](http://davonltd.com)

**davon**

# Guide to insurance cover for self builders

By Ed Bidwell of EvolutionWarranties

**W**hen embarking on a self build project, it is not just design, planning and construction costs that are a challenge. The type of insurance required for the build while under construction and for the years beyond completion is also a daunting prospect. You might be able to save some money on the build costs, but you can't cut corners on the insurance you require. There are a number of different types of insurance that are recommended and below is a guide for self builders on the most common types of insurance.

## Site insurance

This is essential for every self builder. This cover is similar to domestic house insurance and contents policy, and covers properties while under construction. It protects against losses caused by fire, flood, delivery vehicles, vandalism and other eventualities that could cost time and money. Most policies will also include tools, plant and site huts/caravans that have been hired and are on site during the project.

## Public liability and employers' liability

Public liability is the most important policy you will buy for your project. It covers you in the event that someone wanders on site and gets injured. It is worth noting that you can be liable if someone trespasses on your land and accidentally gets injured. The standard level of cover for each policy is £5 million.

In addition, you may need employers' liability if you are project managing and employing trades directly. You might not be employing the person but there is still a duty of care on your part.

***You might be able to save some money on the build costs, but you can't cut corners on the insurance***

## Income protection

If you are borrowing money for the project then it's worth thinking about the various types of income protection. These may include life assurance and critical illness cover.



## Non-negligence cover – JCT 21.2.1 cover

This is particularly important when building a terraced house and digging a basement with neighbours in close proximity and party wall agreements in place.

## 10-year structural warranty or latent defects insurance

When building your own home, whether 100 per cent cash or borrowing money from a bank or building society, you should buy a structural warranty. This is not only a lender requirement, but also gives

you peace of mind in the event of a structural defect. Should you wish to raise some finance or sell the property within 10 years of building it, a future purchaser may insist upon a structural warranty. It is worth noting that purchasing residential warranties after completion is expensive.

On the internet it would appear there are many providers of self build warranty insurance, however, this is not the case. There are only four specialist self build warranty insurers in the market today.

Similarly, there are only a handful of specialist self build mortgage providers in the market and lending criteria continues to be more stringent than it was six years ago. Mortgages are no longer interest only and are dependent on affordability, design, location, and the age and experience of the self builder.

*Continued overleaf...*

# Case study: Orchard Cottage, Rattlesden



Orchard Cottage in Rattlesden is an example of a self build requiring site insurance, including public liability and 10-year warranty cover. The level of cover of the structural warranty was £300,000 and, although the owners of Orchard Cottage were funding the building works with cash, they were fully aware of the requirement by mortgage lenders if they were to need finance at a future date. Mr Walker, the owner commented: "With two children in their early twenties, it is only a matter of time before we might have to release some

money from the house to assist them with deposits on their first homes. The cost of the 10-year warranty was extremely reasonable at the start of the project and certainly a policy I would recommend if you are embarking on a self build. You might be paying with cash, but flexibility and planning for the future is essential!"

In conclusion, when it comes to insurance, do your research, take advice and plan for the future, as your circumstances may change...



## Evolution structural warranties



Can Evolution help with your structural warranties? **Evolution Insurance Solutions Ltd** is one of the UK's leading brokers in the 10-year structural warranty market. If you are undertaking a development project in the near future you will require a mortgage compliant

warranty. Evolution is a specialist in this market and will source the right product at competitive rates for your project. The company is an insurance broker authorised and regulated in the UK by the Financial Conduct Authority under FCA number 472438.

01799 512 031 [www.buildingwarranties.com](http://www.buildingwarranties.com)

## Alto Safety Boot from Scruffs



New to the **Scruffs** range this winter is the hardwearing mid-ankle Alto Safety Boot, set to be in high demand this season. Designed with a flexible and lightweight EVA sole, long lasting comfort is guaranteed throughout the working day. The sole unit is SRA rated for anti-slip resistance and comes with a steel toe and mid sole. Hence, the Alto Safety Boot provides the ultimate protection for feet in

demanding trade environments. The breathable padded tongue and collar reduce foot fatigue and provide the exceptional comfort that's demanded. The new Scruffs Alto Safety boot is available in sizes seven to 12.

[www.scruffs.com](http://www.scruffs.com) [sales@scruffs.com](mailto:sales@scruffs.com)

## BIM files for window products from NorDan will see greater optimisation of glazing

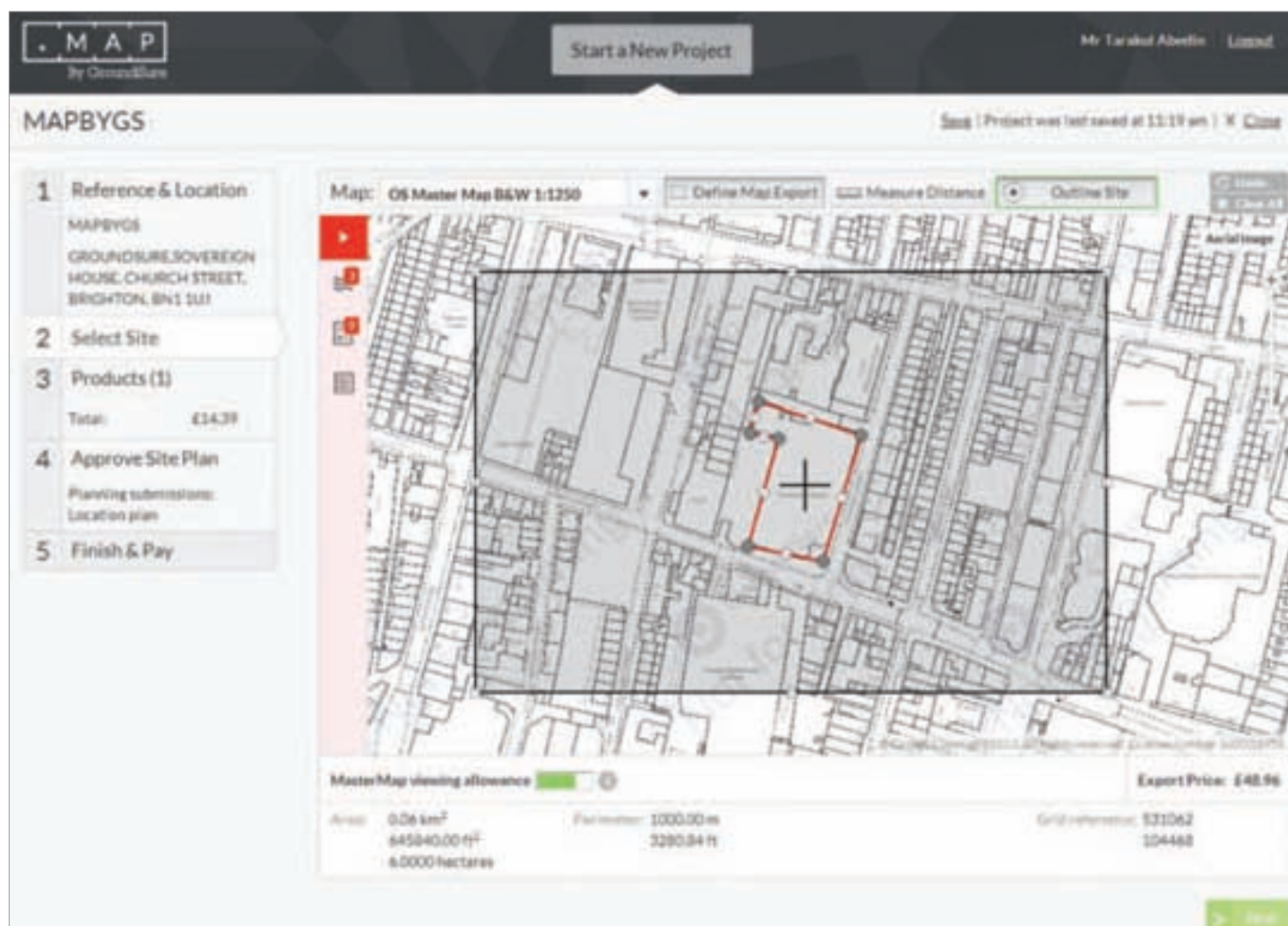


BIM (building information management) files for use with Autodesk Revit software are now available to download from **NorDan**, enabling architects to insert NorDan window and door product information directly into their drawings. This approach to architectural CAD provides parametrically defined interacting building objects. BIM software will enable traditional building drawings with an 'intelligent' layer of information in addition to the outlines of windows. John McMenamy, of NorDan, says: "As this information layer develops it will greatly assist the design team in their energy analysis of the building. We envisage greater optimisation of glazing properties to control heat transfer through the building fabric will result in cost savings for heating and cooling systems." Architect Paul Mitchell, at Kay Elliott Architects, who has successfully used the NorDan window drawings in BIM for a recent project, said: "The BIM modelling allows 3D images of components of a building of which windows are one part. We can see additional information about these elements of the building envelope, and it allows us to add information and the ability to interrogate the drawing for u values, glazing coefficients, etc. This gives us potentially intelligent information available and attached to the drawing, which helps identify discrepancies..."

01452 883131 [www.nordan.co.uk](http://www.nordan.co.uk)

# .MAP By Groundsure

GroundSure, a leading environmental intelligence provider, has launched a new online mapping tool designed for architects and developers



The software, called .MAP By GroundSure, provides a flexible range of mapping solutions which allow you to pan, zoom and plot site layouts and export them for planning applications and site surveys.

.MAP By GroundSure was built on extensive research to understand what developers needed. An easy to use mapping interface and integration to design software, such as AutoCAD, were pre-requisites. It also works on any web browser ensuring every property professional can complete mapping and planning tasks quickly, saving time for other projects.

It offers a unique credit system so users can view and scan the selected mapping area without incurring upfront costs. The system will also automatically add local planning permission data to check for precedent information on permissions and refusals, as well as, crucially, identify key environmental risks in the vicinity – all completely free of charge.

As well as Ordnance Survey MasterMap Topography layer mapping, the gold standard for planning maps, .MAP also offers:

- Ordnance Survey VectorMap® Local
- Aerial photography Ordnance Survey Background maps
- Printed plans and maps for planning applications
- Access to core GroundSure products including environmental risk analysis and planning history



Visit our website: [map.groundsure.com](http://map.groundsure.com)

## Brett Landscaping in social housing project



Brett Landscaping was selected to provide permeable paving for a significant social housing project in Kingston-Upon-Hull – an area where the use of building materials that support flood prevention is critical. PermCalc, Brett's integrated design and costing software for permeable paving, was used to analyse the proposed site based on structural and hydraulic data. As a result, Brett was able to provide a detailed breakdown of the project's requirements and costed recommendations. Brett supplied permeable Omega Flow paving in two variants – the central paving areas supplied in 80mm Brindle blocks and borders specified in 60mm Charcoal. This design offers greater permeability, as well as providing visual contrast.

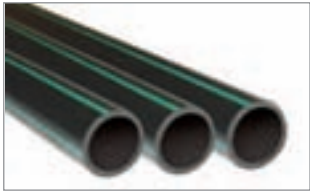
## Gravelrings make gravel surfacing easy



Gravelrings from Kinley Systems is a perfect system for creating fully porous and stabilised loose aggregate drives, parking areas and paths and removes the problems of rutting and migration, normally associated with gravel surfacing. The 25mm deep profile eliminates excess use of gravel, while still providing a durable structure that has load bearing capacity in excess of 100 tonnes. The lightweight panels are easy to install and can be simply cut to shape where required. Gravelrings can be installed on porous or non porous sub-base materials.

01424 201 111 [www.kinleysystems.com](http://www.kinleysystems.com)

## Sustainable solution for reusable water



GPS PE Pipe Systems has launched Enviro-Line, a PE pipe designed specifically for reusable water supplies. A high performance pipe suitable for rainwater harvesting, grey water and irrigation applications, it been launched to help specification of sustainable

commercial and residential developments, providing a flexible and durable reusable water infrastructure that avoids the risk of cross contamination with potable water supplies thanks to its black with green stripe colour coding. It offers all the advantages of PE, including a 100-year+ service life. It is supplied in a range of sizes to suit any reuseable water pipe installation, and provides a lightweight, corrosion-free option that's easy to install, maintain and is leak-free.

## Rainwater harvesting from Polypipe



Polypipe Building Products has recently launched a new range of solutions into the rainwater harvesting marketplace, targeted specifically at the residential market.

Polypipe offers Rainstream – a range of rainwater harvesting options designed for everyone.

Ideal for new build, for retrofit and already seeing major interest from the self-build marketplace, Rainstream is a very simple rainwater harvesting 'package'.

You can even see it on YouTube – just type in Polypipe Rainstream in the search bar!

01709 77 00 00 [www.polypipe.com/building-products](http://www.polypipe.com/building-products)

## No more rainy days blues... Reduce your water costs...

- Replace up to 46% of house hold water usage with rain water, reducing water bills and the impact on the environment
- We manufacture the complete system in-house including pumps, valves, controls and tanks
- Warranty available
- Starting price of £1200
- The Raincycle utilises the same chamber used in our BBA approved Package Pumping Station
- Generally complies with BS8515:2009 British Standard code of practice & EN13076 + EN13077

T: 01630 647200  
[www.ttpumps.com](http://www.ttpumps.com)



**T.T** RainCycle

## We Build It Ltd

simple solution sewage systems



- Suitable for homes without access to mains drainage
- Discreet solution to on-site sewage treatment
- 10 models in the range with a capacity up to 50pe
- CE Marked and EN 12566-3 Certified
- Uses the extended aeration method to treat sewage
- 96% efficiency allows a typical 3-5 year emptying interval
- Visually unobtrusive and odourless
- 25 year warranty on GRP & 2 year warranty on the air pump
- Deal direct with the UK Manufacturer

0800 731 9421 [www.webuildit-ltd.co.uk](http://www.webuildit-ltd.co.uk)

# Flood mitigation for the future, today

A recent report from the Intergovernmental Panel on Climate Change (IPCC) puts human activities as the most certain driver behind our changing climate. As a result, we are warned that we should expect warmer and wetter winters, with extreme rainfall events. Our built environment is now in the spotlight, as the most effective, long term and sustainable solutions to combat the effects of flooding become vital. Thankfully, innovations in flood mitigation have come a long way since the humble sandbag and intelligent passive solutions for our future are now out there. Katherine MacBeth, marketing executive at UK Flood Barriers Ltd, offers an insight

Last year, following the driest March for 59 years, we then experienced the wettest April since records began and heavy rain resulted in extreme flooding scenarios, due to the already dry ground. Many of those who believed they were immune to flooding, due to their distance from coastal or river areas, had their homes devastated by flash flooding. Overall, every one in five days in 2012 saw localised flooding and more than 4,500 properties affected.

It is therefore imperative that new homes are sustainable and flood-proof and that this is factored into the initial planning stage. The industry is embracing the Code for Sustainable Homes with its call to reduce carbon emissions as well as energy and water wastage. However, one of the other categories in the code measures sustainability in terms of 'surface water runoff', which is just as important a consideration. Although many developers may feel their projects are not at risk as they are not based near rivers or the coast, this is irrelevant; flash floods are far more likely to cause devastation, are highly unpredictable, and can affect anywhere.

Ensuring new-build properties comply with the Code for Sustainable Homes in terms of flood prevention need not be complicated or expensive. The housing industry needs to take responsibility to prioritise flood protection by taking a number of small steps to ensure that these new homes are safe.

Solutions for flood defence are not complex; innovations are now designed to be integrated into the fabric of infrastructures and to work without the need for intervention. Passive flood mitigation systems require no human intervention to deploy and activate solely by the power of the flood water, providing the optimum solution at zero operational cost.

Airbricks in particular are often one of the first points of entry for flood water and can allow up to 5,000 litres of water to enter a property every hour – the equivalent would be leaving the garden hose on, inside, for over four hours. Passive airbrick replacements are available, which allow air to circulate under normal circumstances but under flood conditions a self-activating gate will automatically engage, preventing any water entering the property, returning to its original state when the flood water subsides.



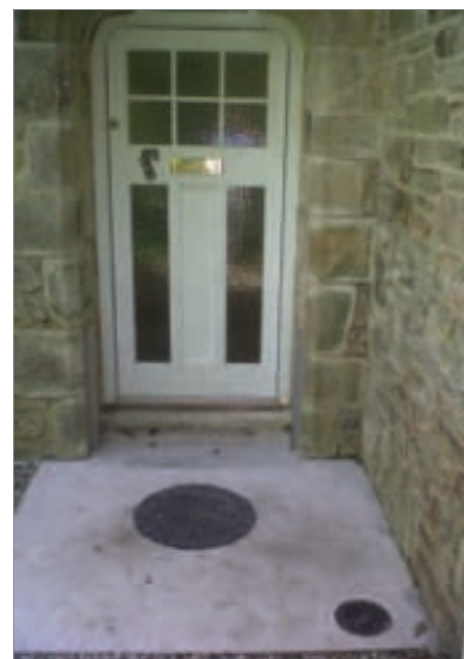
Large scale passive barrier for riverside community, fully deployed

One of the most unpleasant forms of flooding can come with rising sewer levels. This risk can be easily remedied with products that again use the power of the water to self-activate. In the event of water surging back through the drainage in flood conditions, a non-return valve makes use of a gate which automatically lifts to shut against a seal and prevent backflow past the valve. However, when not in use, the valve is always open and as such allows solids to flow freely and unrestricted.

Alongside these smaller passive property measures, solutions also now stretch to barriers which lie dormant in normal environmental conditions, but are self-activated in a flood situation. These defences are increasingly being embraced as an effective, sustainable solution for properties and communities requiring safe, reliable defence that will not be an eyesore. These self-closing flood barriers can be built along rivers, coastlines and other areas of high risk to protect communities.

Future climate change and continued urbanisation is expected to raise the damage cost from surface water flooding by 60-220 per cent by the 2080s and the number of properties at risk of flooding is expected to quadruple over the next 20 years. It is imperative that new buildings are sustainable and flood-proof and that this is factored into the initial planning stage. Passive flood defence offers the ideal solution, providing the least intrusive and most cost-effective answer to the problem of preventing future economic and personal damage from flooding.

*'Passive flood mitigation systems require no human intervention to deploy and activate solely by the power of the flood water'*



Property level passive barrier installed underground, ready to deploy

## Fixers praise BAL Micromax2



BAL Micromax2, launched in February, has been recognised by fixers as one of the most versatile grout products on the market. It matches strength with flexibility, with no shrinkage between tiles at any gap from 1mm to 20mm, and suits any wall or floor tiling on any background. The formulation means a smooth finish, for long-lasting beauty in any of nine striking colours, each with a matching sealant.

Fixers are invited to give a 0-5 star rating review, where it is already standing at an average of 4.7 out of 5. Tiler of the Year 2013, Dave Scott, wrote: "Without doubt the most advanced grout available, what a fantastic finish and a great choice of colours."

## Performance without compromise



Conservation zones are often seen as a roadblock to the construction of new, more efficient buildings, however a new home in Suffolk has shown that this need not be the case, using the **Kingspan TEK® Building System** to help gain planning permission, without

having to compromise on performance or living space. The Kingspan TEK® Building System was specified for the property's walls and roof. Comprising structural insulated panels (SIPs), the System supports a wide range of renders and finishes and was designed, engineered and fabricated specifically for the project by erectors and Kingspan TEK Delivery Partners, SIPs@Clays LLP.

01544 387384 [www.kingspantek.co.uk](http://www.kingspantek.co.uk)

## Kemperol takes central stage at the National Theatre



As the National Theatre prepares for its 50th anniversary season, **Kemper System** has ensured that its Grade II listed building continues to perform by providing the waterproofing membrane for a major refurbishment project. The distinctive terraced balconies provide both public walkways and roofs for offices below, so when their original asphalt surfaces started failing the National Theatre decided to re-waterproof them as part of an £80 million refurbishment. Kemperol 2K-PUR from Kemper System was selected as an effective, flexible membrane that could be applied directly onto the existing substrate without the need for any hot works or strip out. Because the cold liquid-applied membrane is solvent and odour-free, it could be installed while the building was occupied with minimum disruption. Following minor repairs to the existing substrate, the installation team applied Kemper System's Kempertec primer and, once this had been allowed to cure, the Kemperol 2K-PUR solvent-free resin was applied to each surface. The Kemperol resin saturates a non-woven reinforcement fleece and cures to form a seamless, monolithic membrane that is UV stable and permanently elastic with a direct bond to the substrate. In some areas, Kemper System's Kemperdur Quartz Coating was also applied to provide a coloured, slip-resistant, protective coating.

019 254 45532 [www.kempersystem.co.uk](http://www.kempersystem.co.uk)

## Hunter Douglas enhances prized collections



The striking new Library of Birmingham is one of Europe's largest new public libraries and includes bespoke wooden ceiling systems by **Hunter Douglas**. The Hunter Douglas systems include a solid wood grill ceiling, finished in African Ayous, and Unigridd floating ceilings in black and white. The specially designed

Unigridd ceilings are hung from a series of tubes and hooks, ensuring there is no visible grid. The building also features Hunter Douglas wooden grill ceilings in a very large format with lots of curves, cuts and service integrations to enhance the aesthetic appeal of the main public areas of the library.

01543 275 757 [www.hunterdouglas.co.uk](http://www.hunterdouglas.co.uk)

## Manthorpe's revolutionary loft door sets new standards for airtightness

Manthorpe, the Derbyshire based manufacturer of plastic building products, has announced the launch of a new loft door to replace its best-selling GL250-03. The new GL 250 has many innovative features that improve the ease of installation and the products' insulation values; in fact, in tests conducted by the BRE the new door outperformed all major competitor doors that were tested and was the only door to meet and exceed the requirements of British standards and current building regulations. There is virtually no air leakage at all. All variants of the GL250 are fully insulated and available with a range of insulation levels including the GL250-015 which provides insulation level of 0.15W/m<sup>2</sup>K. The new GL 250 is now available through all good builders merchants and distributors. You can also see it in action on the website.

01773 514200 [www.manthorpe.co.uk](http://www.manthorpe.co.uk)

## Heradesign Fins by Knauf AMF



Global advertising agency, Bartle Bogle Hegarty (BBH) London HQ has been redesigned and refurbished from a conventional office layout into an inspiring and welcoming open plan studio space designed for creativity. Heradesign Superfine acoustic Fins from **Knauf AMF**, fitted the brief perfectly and were installed under the existing barrel vaulted roof. The vertically suspended Fins were formed using 25mm thick mineral wool panels wrapped around a solid timber board on both sides. The Fins were suspended in the roof space of the central studio and are affixed to steel RSJs.

020 8892 3216 [www.amfceilings.co.uk](http://www.amfceilings.co.uk)

## Helifix solution for bowed building walls



The recently upgraded BowTie HD, from masonry repair specialist **Helifix**, is the ideal solution to the problem of bulging and unstable building walls. Fully concealed once installed, it rapidly restores structural stabilisation by securing the wall to internal joists or rafters without the need for any unsightly tie bars or pattress plates. The stainless steel BowTie HD, with its registered design, is the market leader in providing bowed walls with lateral restraint. Backed by Helifix's considerable experience, expertise and technical support, the BowTie

HD is fully proven and widely used. Its heavy duty, unique rolled profile with self-cutting end, mechanically connects floor joists or roof timbers.

## Dr. Martens waterproof work boots



This distinctively styled, easy pull-on boot, from **Dr Martens**, utilises a fully waterproof membrane, while the safety toecap, anti-static construction and a steel puncture resistant midsole make this a full S3 specification product.

A fully padded ankle provides additional protection and, along with a Smartmask® PU cushioned footbed, ensures that the boot delivers the ultimate in comfort as well as safety for the most demanding workplaces.

0845 437 3141 [www.drmartens.com/industrial](http://www.drmartens.com/industrial)

## Fab-ulous solution to improving profit



A unique, state-of-the-art single ply roofing system can help deliver a better end product with a significant reduction in cost. Studies show that **Protan's** innovative prefabricated roof process can cut welding by up to 70 per cent: on a typical 10,000m<sup>2</sup> roof: equivalent to 60 hours' less labour and its associated cost.

Protan's prefabricated system uses Protan single ply membrane, which has been developed to withstand even the harshest weather conditions found in Europe, and is proven to perform for 30 years. On site, all the contractor has to do is fix along the edges and abutments, and detail round penetrations etc. Protan produces a range of factory formed detailings to further simplify the process.

01925 658 001 [www.protan.co.uk](http://www.protan.co.uk)

## New Timber Frame Q-Mark certification



**BM TRADA** has launched a new Timber Frame Q-Mark certification scheme, aimed at improving the quality and performance of timber frame and helping manufacturers prepare for CE marking. The new Timber Frame Elements Q-Mark scheme replaces an 'Interim' Scheme, which came to an end on 31 March. Obtaining third party certification through the scheme will also offer a range of benefits for members. It provides them with a competitive advantage by demonstrating that they are working to established performance requirements and enhancing the company's reputation for quality, helping them to generate new and repeat business and improving customer loyalty.

01494 569750 [www.bmtrada.com/technical](http://www.bmtrada.com/technical)

## It's great when things just click. ...Rainline, click and fit technology

Unlike plastic systems, Rainline steel gutters and downpipes are precision engineered to simply click together for a perfect watertight fit and offer the ultimate in rainwater control:

- HARDWEARING AND ROBUST – WILL NOT FADE, LEAK OR CRACK
- LIFETIME PERFORMANCE
- AVAILABLE IN 10 COLOURS PLUS NATURAL COPPER
- COMPARABLE IN PRICE TO A MID RANGE PLASTIC SYSTEM
- FULLY GUARANTEED
- LOW CARBON FOOTPRINT
- QUICK & EASY TO INSTALL

*Put Rainline to the test - for an information pack contact Lindab today.*



RAINLINE | WHY FIT ANYTHING ELSE?

Lindab Ltd., Building Products Division  
Shenstone Trading Estate, Halesowen  
West Midlands B63 3XB  
Telephone: +44 121 585 2780  
Facsimile: +44 121 585 2782

Email: [buildingproducts.sales@lindab.co.uk](mailto:buildingproducts.sales@lindab.co.uk)

[www.lindab.co.uk](http://www.lindab.co.uk)



## 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.

02920 776677 [www.eurobond.co.uk](http://www.eurobond.co.uk)

## Grand Designs for RigiSystems S-Type



RigiSystems S-Type profiled cladding has featured heavily on a recent episode of Channel 4's *Grand Designs*. Strathaven Airfield is the oldest continually used airstrip in Scotland. It is now a busy and active centre for micro-lighting and the owner

commissioned local architects Richard Murphy to design a house for himself and his partner to be situated parallel to the runway. The structure is a simple cantilevered steel frame and all the roof and wall cladding is RigiSystems S-Type mill-finished aluminium – a material which resonates with local farm cladding.

01905 750500 [www.rigisystems.org](http://www.rigisystems.org)

## Eircom gets a facelift from Remmers



With the exterior render of the Eircom exchange building suffering from a high degree of cracking, the Remmers Elastoflex system was chosen to repair it and give a high degree of finish to the exterior. Repairs were carried out using Betofix RM, a fast cure feather edge repair mortar, prior to application of the coating system. The Elastoflex system incorporates mesh reinforcement within a highly elastic coating, compliant with EN1504 – surface protection coatings. The coating has good water vapour diffusion characteristics, is highly water repellent and highly resistant to the diffusion of carbon dioxide.

0845 373 0103 [www.remmers.co.uk](http://www.remmers.co.uk)

# Dura Cladding

## Timber Composite Cladding

+44 (0)1255 423601  
[enquiries@duracomposites.com](mailto:enquiries@duracomposites.com)  
[www.duracomposites.com](http://www.duracomposites.com)

-  **Up to 25 years Warranty**
-  **87% Recycled Materials**
-  **Colour Stable**
-  **Quick and Easy to Install**



Product shown is Type 150 Flush Charcoal



The mark of responsible forestry  
Now Available as 100%  
FSC Certified on Request

Ideal for new build or refurbishment projects, Dura Cladding looks and feels like timber and its unique formula provides lightweight yet durable cladding that will not splinter, warp, rot or fade throughout its 50 years design life expectancy.

...designed for the future

■ Industrial ■ Marine ■ Landscaping ■ Architectural

**dura**™  
**composites**

# Well-insulated and perfectly ventilated

William McDowell, business director, UK & Ireland at ROCKPANEL, discusses the benefits of installing rainscreen cladding to achieve a beautiful façade together with efficient insulation giving the building an optimal living environment

An ever-growing number of architects are choosing to use a non-combustible, vapour-permeable façade insulation in their projects. Decorative façades in ventilated constructions are increasingly specified by architects who require a product which offers thermal, aesthetic and water resistance benefits to the building. In many sectors the use of rainscreen cladding has been growing for many years. In recent years an increasing number of architects specifying for residential projects have recognised the value that rainscreen systems offer.

The use of rainscreen cladding gives the load-bearing structure of a building optimal protection from weather influences such as sun, rain and moisture. It can also provide additional thermal insulation behind the cladding. The unique feature of a rear ventilated rainscreen is that the thermal protection and the weather protection are separated, making rainscreen systems robust and long lasting. The rainscreen cladding system has a ventilation cavity between the insulation and the façade cladding, which prevents rainwater from penetrating the building while at the same time allowing water vapour to escape from inside. This allows the building to 'breathe' therefore reducing condensation. The installation of an insulated rainscreen cladding system also keeps the building cool in the summer and warm in the winter.

Because of this unique cavity within the rainscreen cladding system, it is possible to install insulation material of any thickness required. Mineral insulating materials of the thermal conductivity groups 035 or 032 are normally used under the cladding to satisfy the requirements of the Energy Savings Regulation.

Installing a ventilated double façade is one of the easiest ways to insulate an existing façade and it can be applied to almost all building façades including those using brick, concrete and zinc, enabling the architect to achieve the design vision with every building façade. After insulation is applied to the existing façade, the building can be aesthetically finished with rainscreen cladding. This flexible approach to the building method offers a number of advantages. The structure can be widened in the future to create additional space and make the installation of extra insulation easy. Cladding the façade with new rainscreen material allows a completely new design to be created while the interior area of the building is unaffected. Rainscreen façade cladding products offer a wide range of renovation options for details such as dwarf façades or the side walls of dormer windows. By using a rear ventilated rainscreen, any further special requirements an architect may have, concerning, for example, fire



The 'treehouse school' clad with ROCKPANEL Woods

safety, can also be easily incorporated. In the case of fire protection, the use of a non-combustible stone wool is often used in the cavity to achieve this.

Some rainscreen cladding products are produced from natural and sustainable materials, such as basalt rock, making them durable, weather, temperature and UV-resistant, low-maintenance and ensuring that the colours of the façade remain durably bright for years to come. These products are also a safe and responsible environmental choice for a sustainable construction project. These rainscreen products are often quick and easy to install and maintain, ensuring that the total cost of the building envelope can be reduced. Rainscreen cladding therefore offers the architect the opportunity to create modern cutting edge design while keeping a sharp focus on cost issues and installation times.

Rainscreen cladding can be used in both renovation projects and new buildings. In renovations it can be used to improve the building's energy efficiency, which may be poor in an older building, with high running costs and reduced levels of comfort for users. Rainscreen cladding can also be used in conjunction with energy-saving measures such as roof

---

***"For future architectural challenges, a rear ventilated rainscreen system is cost-effective, easy to process and an aesthetically appealing façade cladding"***

---

renovations and insulation. It offers an opportunity to redesign aspects of a building and give it a new lease of life. In new building projects, rainscreen cladding offers an aesthetically attractive material, which can be easily processed and shaped, even curved, to meet the architect's design vision.

For future architectural challenges, a rear ventilated rainscreen system is cost-effective, easy to process and an aesthetically appealing façade cladding, which allows the architect to create beautiful building designs using a product that is environmentally sustainable and energy saving and which provides a quality living and working environment for users.



## A flowing wave of HI-MACS®

With the construction of the Pan-gyo Residence by the architecture firm, Office 53427, a HI-MACS® façade was used for the first time in Korea. Its snow-white walls emerge from a wooden base like a petrified sea wave, with the foam expressed by the perforation of the façade. This new way of shaping the façade and the cubature of a living space, breaks with the way in which residential buildings are traditionally built here, and demonstrates a new and innovative kind of living space design. The house uses three façade materials – wood, brick and HI-MACS® acrylic stone. The client chose the Natural Acrylic Stone because he wanted a house that would be as different as possible from the others. Using HI-MACS® for the first time to build façades in Korea confirmed this desire for individuality.

01892 704074 [www.himacs.eu](http://www.himacs.eu)



## Latham's looks to the future

Accoya® – the modified, highly durable and dimensionally stable certified softwood – is now available from all ten of James Latham's nationwide distribution sites. Accoya® wood is a perfect solution for exterior cladding, siding and façades where aesthetics, less frequent maintenance, dimensional stability, durability and insulation value are key factors. Accoya® wood can be used to create simple or complex designs with a choice of coating finishes, delivering typically improved lifetimes. It can be opaque coated or, for those wishing to enjoy the natural look of wood, translucent coated. Plus, with a 50-year guarantee when used externally and 25-years when used in the ground, Accoya's low maintenance requirements add to its 'whole life' cost effectiveness and environmental credentials and this versatility makes it ideal for use in residential, commercial and industrial applications.

0116 257 3415 [www.lathamtimber.co.uk](http://www.lathamtimber.co.uk)



## Rainspan part of BREEAM winning team

Cardiff University's Hadyn Ellis Building, has won the Higher Education category of the Building Research Establishment Environmental Assessment Method (BREEAM) Awards, for Wales. Sustainability was a key element of the University's brief to the design team which was set the target of BREEAM 'Excellent'. Eurobond's Rainspan terracotta architectural façade system was specified and its environmental credentials helped to ensure that within the materials section of the BREEAM assessment, the Building was given an excellent chance of achieving a high rating. A BREEAM rating of Excellent was achieved with an outstanding score of 75.38 per cent. Installation of the Rainspan System is fast and easy and the long span capability can reduce secondary steelwork requirements and build costs. Thermal efficiency helps to reduce the carbon footprint and it provides 'as tested' air tightness of less than 1m³.hr/m² – all helping to deliver outstanding BREEAM rated buildings.

02920 776677 [www.cb-ascent.co.uk](http://www.cb-ascent.co.uk)



## Powerful new Gilgen door operator

Gilgen Door Systems has launched its most powerful and silent running swing door operator yet. The technologically advanced Gilgen FD 20 swing door drive is designed for the automation of new or existing doors up to 250kg and can also automate external doors facing wind loads up to 50MPH. Due to its Swiss build quality and design the FD 20 is ideally suited to tough applications such as hospitals, schools and transport hubs. The versatile FD 20 is 50 per cent more powerful than its predecessor and enables easy, contactless and hygienic access for a wide variety of buildings. Lightweight doors, external doors and even fire rated doors can be automated with ease. Door lintel installations are available with an optional sliding rod mechanism offering greatly improved aesthetics. The powerful electro-mechanical drive on the FD20 is quiet and smooth in operation and intuitive operation is achieved through illuminated program selector buttons.

0800 316 6994 [www.gilgendoorsystems.co.uk](http://www.gilgendoorsystems.co.uk)



## Composite Decking to lust after

**D**elivering first class quality and surpassing customer expectations' from Dura Composites has been displayed with the installation of Dura Deck 225 composite decking in charcoal colour, at a penthouse apartment in Dubai.

The customer commented: "While fitting out a Penthouse apartment on the Palm Jumeirah, I have had to deal with more than a dozen separate sub-contractors. I can say without hesitation that Dura Composites, with Paul Fletcher my point of contact, have outclassed them all by a margin so wide that comparison becomes meaningless. With Dura Composites there were no

problems with the supply or the install. From the beginning they were professional and they knew exactly what they were doing, they needed no micro-management, no pushing and no prodding (if you work with sub-contractors you will know what I mean). The quality of their installation was far superior than even I could have expected. I was hugely impressed and extremely happy; just look at the photos which speak a thousand words. Basically Paul and his team went beyond what was expected to deliver a first class product at a first class location. If you wish for a trouble free and high quality supply, then I recommend that you use Dura Composites."

*Contact Dura Composites today on 01255 423601 or visit [www.duracomposites.com](http://www.duracomposites.com)*

# Finish your build in budget. On time. In style.



Get your **FREE** catalogue today!



**0808 168 28 28**



**IronmongeryDirect.com**



DOWNLOAD OUR **FREE** APP  
FROM YOUR APP STORE



OR TEXT **RBA8** to 62244 FREE!  
With name, address and email.

**IronmongeryDirect**

**MASTERS OF OUR TRADE**

DOOR FURNITURE • WINDOW & JOINERY HARDWARE • SLIDING DOOR HARDWARE • HINGES • DOOR CLOSERS • FIRE CONTROL • SIGNS • LOCKS  
LATCHES & SECURITY • CABINET FURNITURE • SHELVING & STORAGE • BOLTS & STOPS • SEALANTS & ADHESIVES • SCREWS & FIXINGS

## Kayflow launches superdeep guttering



Kayflow, the rainwater, underground and soil systems specialist, has launched a new high strength, high volume guttering system, the SuperDeep 170. It has been designed to handle a much higher flow rate than standard guttering systems. With four of the top five wettest years occurring since the millennium, and data revealing that the frequency of extreme rainfall in the UK may be increasing, the SuperDeep 170 is raising the benchmark for guttering systems. Recommended for fixing at 600mm intervals, each fascia bracket is able to carry a weight of 125kg; more than enough to handle a gutter full of water, ice and snow.

01827 317 200 [www.kayflow.co.uk](http://www.kayflow.co.uk)

## Garador asks the industry



Garage door manufacturer Garador is appealing to the building industry to provide feedback on a possible future product innovation: a side hung version of its popular Salisbury door.

The firm is interested to hear from garage door retailers and installers to gauge how much of a demand there is for a side-hung version of the Salisbury garage door before putting it into production.

Garador's popular Salisbury door is a versatile, vertically ribbed door with window sections to provide additional light.

01935 443791 [www.garador.co.uk](http://www.garador.co.uk)

## Smart completes major London Landmark



The ground floor areas to four blocks of Canary Wharf's Landmark development were installed with Smart Architectural Aluminium's MC Curtain Walling system. With in excess of 1,600 sq m of curtain walling installed, including Smart Wall commercial entrance doors, the system perfectly completes the development. In a polyester powder coated grey finish, the slim profiles of the Smart MC Wall curtain walling system allow maximum light into both single and

multi-storey buildings, with a special feature transom cap with concealed mullions for uninterrupted 'glass to glass' joints.

01934 876100 [www.smartsystems.co.uk](http://www.smartsystems.co.uk)

## Cotswold Stays' success with customers



FS Friction Stays from Cotswold Architectural Products have become best-selling lines for hardware distributor Carl F Groupco. Functionality and durability are reported as key reasons for the stays' popularity. Manufacture in both ferretic and high grade corrosion resistant austenitic stainless steel is recognised as significant in adding to the appeal of the range. Commenting on the popularity of the product,

John Mitchell, head of technical support for Carl F Groupco, said: "With each variant available in ferretic or austenitic steel, the Cotswold range offers much more than a standard stay. The austenitic option provides higher grade corrosion resistance which is ideal for use on windows located in coastal areas or in places where high humidity is a factor."



## New window gets top marks for ventilation

Tests undertaken on a new ventilating window have shown that the window allows for natural ventilation, improved air quality and omits the need for mechanical plant for ventilation and cooling in classrooms. Called Rapidvent, the window has been launched by a leading UK design and manufacturing company, Britplas. Test results of a technical performance study undertaken by global design, engineering and management consultancy, WSP, were overwhelmingly positive and showed that compared with standard or restricted top hung windows the Rapidvent will deliver:

- A 10°C reduction in peak and average internal temperature
- Ten times the natural ventilation rate
- 50 per cent lower carbon dioxide concentration
- Mechanical plant saving up to £5,300 per classroom
- Energy saving up to £120 per classroom, per year
- All requirements of BB101 achieved passively.

01925 824317 [www.britplas.com](http://www.britplas.com)



## Axis open doors at Waitrose

Axis Automatic Entrance Systems has installed a number of doors in the transformed Waitrose Food & Home store in the centre of Bath. Now nearly three times its original size, the 40,000 square foot store offers a host of new features including a customer café. 119 extra jobs have been created with this £10 million investment and Waitrose has expanded to fill the entire Podium Shopping Centre. Axis Automatic Entrance Systems fitted two pairs of swing doors at the main entrance, a pair of bipart sliding doors at the outer entrance, giving access into the car park, and another pair at the inner entrance. The rear of the store was fitted with a pair of bipart sliding doors on the outer entrance but two pairs of swing doors at the inner entrance that leads directly into the Home section of the store. These automatic doors were supplemented by a manual swing door to the café and Axis also supplied a number of roller shutters.

0844 504 6545 [www.axisautomatic.co.uk](http://www.axisautomatic.co.uk)

# Structural

## DECORATIVE ANTI-SLIP GLASS

Mainly for anti-slip use and rated R10 to R11, for use in glass floors, stair treads, bridges and walk on roof lights, however can be specified anywhere an economical solution is required for a decorative glass product.

Can be processed, toughened and laminated to maximum size of 3210mm x 2250mm.

**Further information is available from our sales and technical offices**



## Glazing Specialists

[www.firmanglass.com](http://www.firmanglass.com)



**COMFORT R10**

**DREAM R11**

**ELEGANCE R10**

**SECRET R11**

**TRUST R11**

To find out more visit [www.firmanglass.com](http://www.firmanglass.com)

Firman Glass, 19 Bates Road, Harold Wood, Romford, Essex RM3 0JH

Tel: 01708 374534 Fax: 01708 340511 Email: [sales@firmanglass.com](mailto:sales@firmanglass.com)



**Colorfirm™ FIRMATUFF™**



In association with



**MALISHEN  
WILSON  
ENGINEERS**

# Firman

[www.firmanglass.com](http://www.firmanglass.com)

## A higher standard of security from Gilgen



Gilgen Door Systems has launched a new range of burglar-resistant, automatic sliding doors designed to target harden buildings from the threat of break-in, theft and criminal attack. The Gilgen SLX-RC (Resistance Class) automatic door is one of the first to have passed the latest EN1627 European burglar resistance

standard. Testing institute TÜF Nord were commissioned to test both the SLX RC2 and SLX RC3 models. Crow bars, club hammers and drills were used to try and force the Gilgen doors open over a sustained time period without success. The doors also withstood static loads (RC2=3000 N/RC3=6000 N) and also passed the dynamic impact test with a pendulum weight of 50kg.

0800 316 6994 [www.gilgendoorsystems.co.uk](http://www.gilgendoorsystems.co.uk)

## New energy efficient window for homes



A new energy efficient, easy-to-clean, fully reversible window is now available from profile manufacturer Profile 22. Ideal for both high and medium-rise applications, and for when space and access is restricted, the new window has a rotational 180° pivot action allowing residents to safely clean the outer window panes from inside their home. It has been designed with a five chamber system and can incorporate argon filled triple glazing, which enhances thermal performance.

The product achieves a U-value of 0.8 and an A+ rating under the Window Energy Ratings scheme. The fully reversible window can also incorporate triple seals maximising thermal performance.

01952 290910 [www.profile22.co.uk](http://www.profile22.co.uk)



## Reynaers at Home launches patio doors

With the UK launch of its Hi-Finity ultra-slim sliding patio doors, Reynaers at Home has made it simple for architects and homeowners to bring to life any contemporary grand design that requires uninterrupted floor-to ceiling glass. Structurally glazed to keep the aluminium frame to a minimum, these doors are designed for the outer frame to be fitted behind the brickwork. With the resulting floor-to-ceiling glass and only a 35mm aluminium interlock between door panels, the Hi-Finity door delivers stunning aesthetics with no compromise on energy efficiency, weather resistance or security. Underpinned by exceptional engineering expertise, the doors are available with a maximum door height of 3,500mm and a maximum door panel weight up to 500kg. By combining the huge panels in a range of double track and triple track designs, Hi-Finity doors extend design possibilities in terms of size while ensuring smooth operation with even the heaviest of loads. Each door meets industry-leading standards of thermal insulation, weather resistance, noise reduction and security, helping to keep any home cosy, safe and warm.

0121 421 9707 [www.reynaersathome.co.uk](http://www.reynaersathome.co.uk)

## Royale Windows



### The Slimmest Thermally Broken Aluminum Window Available



### Traditional Metal Windows For A Fraction Of The Cost Of Steel



### Secured by Design Using Modern Shootbolt Locking

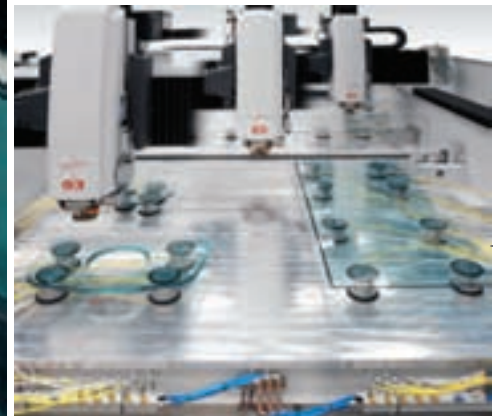
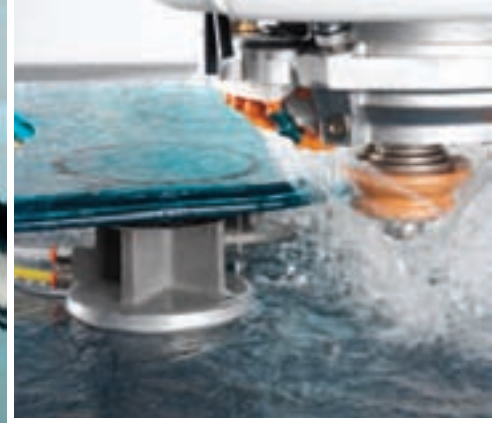
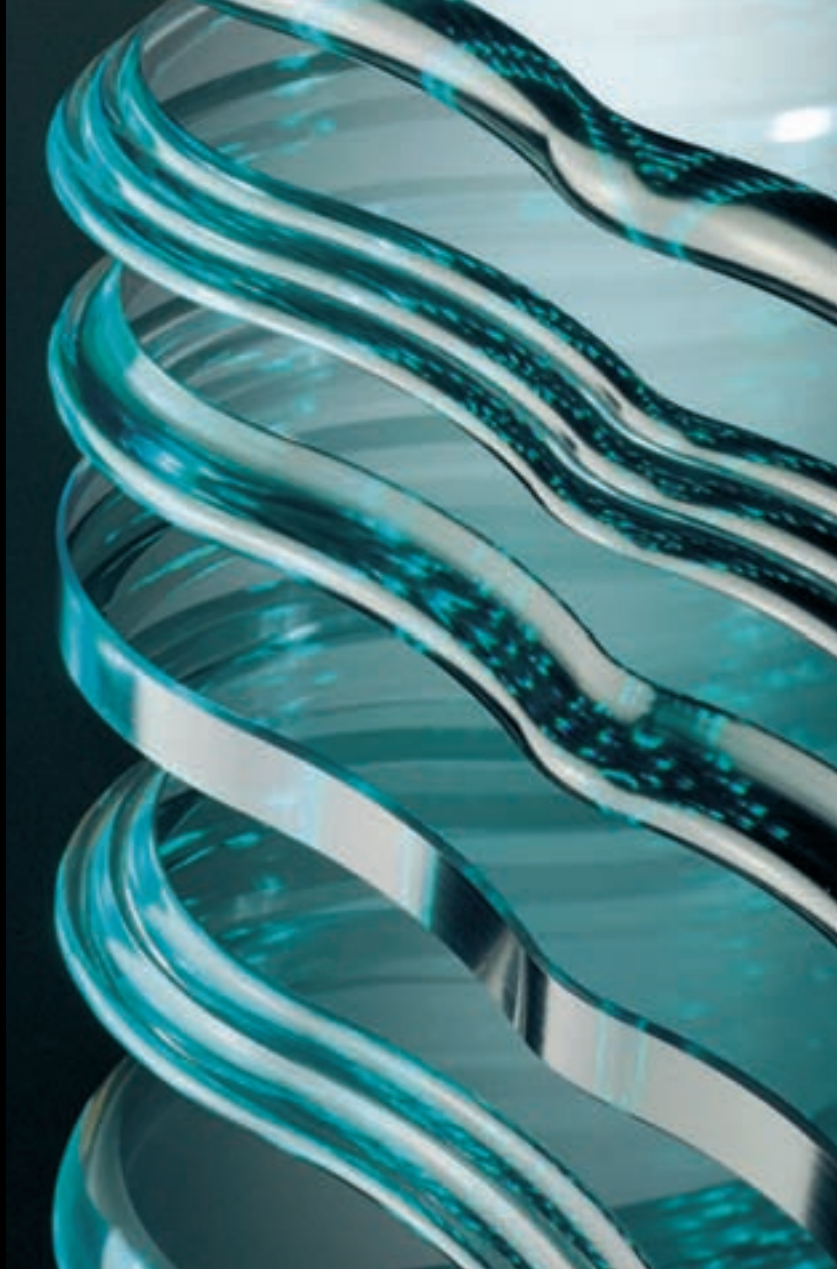


**DURATION  
WINDOWS**

Aluminium Trade Manufacturer Since 1985

**Call 01268 681612 Today  
Or Visit [duration.co.uk](http://duration.co.uk)**

www.firmanglass.com



# Processing Excellence

- Glass toughening 4mm – 19mm (3000mm x 5000mm)
- CNC cutting equipment
- CNC straight & shaped edgework
- CNC drilling, notching & routing
- Water jet cutting for glass, steel and stone to 100mm thicknesses



For more information contact [sales@firmanglass.com](mailto:sales@firmanglass.com)  
or visit [www.firmanglass.com](http://www.firmanglass.com)

Firman Glass, 19 Bates Road, Harold Wood, Romford, Essex RM3 0JH Tel: 01708 374534



[www.firmanglass.com](http://www.firmanglass.com)

## How to fit a composite door



A new How to Video from **Safeddoors** has been created to assist with installing a composite door. Just under three minutes long, the video gives a step-by-step guide to fitting the new door as well as removing the existing door and frame, coupled with handy hints and tips. It has been designed to answer frequently asked questions and help avoid common mistakes. Keeping it simple, Safeddoors also advises the viewer to

check that they have all of the necessary tools to hand before starting the installation, as well as highlighting easy-to-forget factors. For more information and to watch the How to Video please visit the website.

01684 595 200 [www.safeddoors.co.uk](http://www.safeddoors.co.uk)

## New brochure from Schueco Jansen



**Schueco Jansen**, one of Europe's leading specialists in the design and supply of steel windows, doors and façades, has released a brochure containing details of the company's comprehensive security offering which includes a sliding-door system never before available in the UK. The term 'security' covers not only burglar and bullet resistant systems but, in particular, Schueco Jansen's wide range of fire-resistant products delivering both E and EI protection. In addition to façades, windows, internal single and double doors, the latest introduction is the innovative Janisol 2 automatic sliding door with EI30 fire resistance, and an optional emergency exit function.

01908 282 111 [www.schueco.co.uk](http://www.schueco.co.uk)

## Secure solutions from Total Glass



**Total Glass** has supplied the complete quality window and door solution, including two of its award-winning high security aluminium communal entrance doors, for an exclusive apartment development in Ainsdale, Merseyside. Manufactured from heavy-gauge aluminium, the aesthetically-pleasing doors have been installed to the front and rear of the development. All Total Glass communal entrance doors carry Secured by Design and PAS23 & PAS24 accreditation. Total Glass also manufactured 80 quality white PVC-U windows for the building, including four smoke windows to the landings operated by automatic actuators in the event of fire.

## Fully automated bi-fold garage doors



Featured this month, in a new installation in Jersey, is the fully automated bi-fold garage doors. These come with flush construction, a pedestrian access option, matching designs to front doors and the same features as our front doors – with steel reinforcement, high security and high insulation. The versatility of the

motorised opening can be seen in the photo, allowing full open or limited access. This new garage door system is available in all **Urban Front** door designs, in any RAL painted finish or any of the six available wood options: Iroko, Western Red Cedar, European Oak, American Black Walnut, Fumed Oak and Wenge.

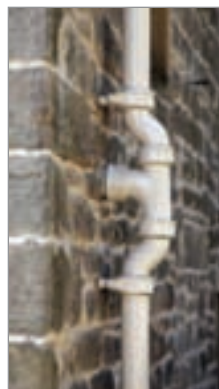
01494 778787 [www.urbanfront.co.uk](http://www.urbanfront.co.uk)

## Rain cups and chains from Yeoman Rainguard



**Yeoman Rainguard** has added attractive rain cups and chains to its range of rainwater systems. Manufactured from copper, one of the few metals that is fully sustainable, the rain cups and chains prove to be an environmentally friendly, naturally durable, decorative addition to a project. Yeoman Rainguard copper rain chains and cups are available in a wide range of designs and profiles making it the perfect finishing touch on any house, conservatory or garden building. For further details on Yeoman Rainguard's colour options and products visit the website.

## Yeoman Rainguard has the right solution



**Yeoman Rainguard** has responded to customer demand by adding the TX Cast Iron Soil Pipes to its range. Low maintenance and cost effective, Yeoman Rainguard TX Cast Iron Soil Pipes can save substantially on labour and installation time due to the push socket jointing system which eliminates the need for special jointing tools or equipment. Designed to complement Yeoman Rainguard Cast Iron and Aluminium XL rainwater systems, the TX range is a perfect choice for new build, conservation and listed building projects. Yeoman Rainguard can also supply rainwater systems in aluminium, GRP, cast iron, copper, zinc and stainless steel.

## Minus 7 – the true hybrid energy harvester



The **Minus7** hybrid energy harvesting system is a solar-assisted heat pump technology. The NCM (SAP) identifier for this product is Minus 7 SEP3G10 1/2/3. It is a renewable energy system made up of an endothermic roofing system, a solar energy processor and a large thermal store. The system uses an endothermic tile plank to form a weather-tight interlocking roofing system, made from a 2.5mm thick, uniform profile, aluminium extrusion, dressed in a powder-coated, hard-wearing finish. The endothermic tile planks are flooded with a heat transfer fluid which absorbs heat energy and solar thermal energy.

The system provides hot water and heating for buildings. It is suitable for new-build or deep refurbishments, where a new roof is required. It is designed to keep a five-bedroom house at a comfortable temperature of at least 21°C even in the worst case scenario in mid-winter. However the system is capable of servicing up to three dwellings at once making it highly suitable for housing associations as well as commercial buildings. Fully UK manufactured, the roofing component is expected to last for in excess of 50 years and the solar energy processor will last for in excess of 20 years. All components are fully recyclable at end-of-life.

01922 419405 [www.minus7.co.uk](http://www.minus7.co.uk)

# English Heritage at the Engine House, Swindon – Selectaglaze awarded return ticket



For further information, please contact the marketing department on 01727 837271, email: [enquiries@selectaglaze.co.uk](mailto:enquiries@selectaglaze.co.uk), or visit [www.selectaglaze.co.uk](http://www.selectaglaze.co.uk)

The GWR Central Engine Station in Swindon, built in 1844, was extended with the provision of a three-storey building in the 1870s to provide general office accommodation and airy light-filled drawing offices. In 1903 an additional storey was added in order to provide extra office space. Having ceased operating as an Engine Station this section of the building was acquired by English Heritage in 1992 to house the organisation's extensive archives.

As part of the 1992 interior refurbishment to this Grade II\* Listed building Selectaglaze, a leading designer, manufacture and installer of secondary glazing in the UK, treated windows on the south elevation in order to improve noise insulation from the railway lines.

Recent rationalisation of English Heritage's office space around the UK has resulted in an increased number of the organisation's responsibilities being delivered from The Engine House by over 500 members of staff. This now includes a public access library, dark rooms, photographic conservation laboratories and meeting rooms. To facilitate these extra areas of responsibility the building required

further renovation and conversion works which were put out to Public Tender. This included the requirement for "The thermal upgrading of windows by installation of secondary glazing units and draught proofing of windows" to specifications prepared by Oxley Conservation, an historic buildings consultancy. The successful applicant for the secondary glazing element was, again, Royal Warrant Holder, Selectaglaze.

A total of 100 sash windows of different sizes were treated using the slim profile Series 20 system for smaller windows and the heavy duty Series 90 range for 'monumental' style sash windows, some with curved heads. Low emissivity glass was incorporated throughout to optimise the thermal performance.

Each window was individually measured and a bespoke frame made that fitted precisely to ensure a good seal. The windows arrived fully fabricated and were installed quickly and with minimum disruption to the fully functioning office.

**Glazing Innovations Ltd**  
6 Barnes Close, Brandon, Suffolk IP27 0NY

Tel: +44 (0) 1842 816080  
Fax: +44 (0) 1842 813598  
Email: [sales@glazinginnovations.co.uk](mailto:sales@glazinginnovations.co.uk)

[www.glazinginnovations.co.uk](http://www.glazinginnovations.co.uk)

**GLAZING INNOVATIONS**

**A TOTAL SOLUTION FOR ARCHITECTURAL GLAZING**

The team at Glazing Innovations specialise in the design/manufacture and installation of bespoke and modular architectural glazing. We pride ourselves upon the services we offer from pre-contract planning to site completion and subsequent maintenance.

- Atriums
- Partitions
- Conservatories
- Framed Glazing
- Facades
- Rooflights
- Walk On Floors
- Structural Glazing
- Canopies
- Balustrade
- Shuffle Glazing
- Frameless Glazing

## Balconies featured at prestigious development



NEACO's Spectrum balustrade has been specified with curved glass panels to form some stylish corner balcony terraces at Dove Tree Court, a luxury development of 33 assisted living apartments in Shirley, near Solihull, from McCarthy & Stone. Richard Robinson, buyer at McCarthy & Stone, commented: "NEACO provided a full design and installation solution with close involvement in site meetings throughout the specification process. They were very responsive to our requests and proactive in their approach to delivering our design brief. The installation has been completed to a brilliant standard and I'm sure that we will be working with NEACO again on future projects."

## Ritec International provides clear solution



Georgia's new parliament has opened to a fanfare of acclaim with all of its glass treated with the ClearShield Eco-System™. Ritec's representative in neighbouring Turkey, Kozmos Cam, was brought in to treat all 11,500 sq m of the building's glass with the ClearShield Eco-System™. Early into the construction project, the glass was installed into its aluminium frame. The second stage was to protect the glass from future moisture, alkaline and dirt. ClearShield™ was used to transform the glass into 'low-maintenance' glass, which will make elements easier to clean and provide resistance to staining and discolouration. The result has been met with universal acclaim.

020 8344 8210 [www.ritec.co.uk](http://www.ritec.co.uk)

# Creating healthy spaces – signed RENSON®

RENSON® aims to create a healthy, comfortable and energy efficient indoor climate using natural ventilation and sun protection

## Acoustic ventilation solutions

High-performance window ventilators, louvres or the Linius® continuous louver system allow ventilation to your building without any disturbing influence from outside noises. The self-regulating flap ventilator Invisivent®EVO AK is almost invisible from the outside and from the inside you only see the internal tip lever. It offers a maximum airflow of 15.9l/s/m at 2Pa and a sound reduction in open position up to 48dB. RENSON® also offers a complete set of louver panels and acoustic Linius® solutions with noise insulation  $R_w$  (C;Ctr) ranging from 6 to 17dB.

## Wind-resistant vertical sun screen with Connect & Go technology

The Fixscreen® 150EVO is a truly wind-resistant and insect proof screen in every position. But there is more to say. Besides the current Softline box design,

RENSON® has come up with a new sleek Square design in response to the strong market demand. The discreet bottom rail disappears into the box: completely up to a height of 2,700mm and partially up to a height of 6,000 mm. This Fixscreen® 150EVO is suitable for all surfaces up to 22m<sup>2</sup>

## Terrace coverings with a bladed roof system

The Camargue® and Algarve® terrace coverings combine an aluminium structure with a roof made of rotatable blades. The water on the blades is drained away. This water drainage also operates when the blades are opened once it has stopped raining. These terrace coverings can be equipped with lights, heating elements and flat panel speakers. By incorporating wind-resistant screens, glass sliding doors or sliding panels, they become extra outdoor spaces that offer protection against sun, wind and rain.



01622 754 123  
[www.rensonuk.net](http://www.rensonuk.net)

## LUMEN ROOFLIGHT



## The Lumen Conservation rooflight

- Traditional Victorian design
- Pilkington Activ self clean glass
- Fine lines of steel
- Genuine glazing bar
- Manufactured in Britain to ISO9001:2008
- American Ash interior liner
- Brass winding mechanism
- Available in a range of standard or bespoke sizes



Contact Lumen on: **0330 300 1090**  
 email: [info@lumenrooflight.co.uk](mailto:info@lumenrooflight.co.uk)  
[www.lumenrooflight.co.uk](http://www.lumenrooflight.co.uk)

**LUMEN** | The bright choice for architects



## Hunter Douglas shutter systems helps



The striking Ixia development in London's Shoreditch for Crest Nicholson, with a bespoke **Hunter Douglas** shutter system, has proved an instant hit with buyers. The exterior of the development, designed by architects HGP, features a titanium anodised shutter system installed by Alumer

and allowing residents to make their own adjustments for privacy, light and shade. Phase one on the Ixia scheme saw 244 sliding shutters installed, while phase 2 saw the addition of 100AF fins for vertical privacy control, serving to highlight the benefits of the bespoke systems the company can create thanks to the design flexibility of the innovative system.

01543 275 757 [www.hunterdouglas.co.uk](http://www.hunterdouglas.co.uk)

## Comar improves performance



With ever-increasing demands on the performance of glazing and opening vents, **Comar Architectural Aluminium Systems** has developed and rigorously tested its aluminium window systems to meet the very latest performance and specification demands, ensuring their clients have a future proof solution. The

Comar range of solutions, Comar 5P.i and Comar 9P.i High Performance window systems, offers specifiers a comprehensive single source solution that achieves an increased range of window sizes. To achieve this Comar Systems has two profile ranges available: standard and heavy duty.

0208 685 9685 [www.comar-alu.co.uk](http://www.comar-alu.co.uk)

## Air-tight membrane used on log cabin



The **A. Proctor Group Ltd** recently supplied its Wraprite-SA into a log cabin construction in Corgarff, Aberdeenshire. Wraprite-SA combines the best properties of a vapour permeable membrane and an air barrier in one innovative, self-adhering product. It fully bonds (no mechanical attachment) to almost any substrate for air tightness and ease of installation.

Wraprite-SA is designed for use behind rain screen cladding systems where water resistance and energy efficiency are essential. If you require further information related to A. Proctor Group's Wraprite-SA...

01250 872261 [www.proctorgroup.com](http://www.proctorgroup.com)

## Next generation insulation



A stylish purpose built development of three houses in Buckingham Road, Leeds is the latest project to benefit from OPTIM-R - an optimum performance Vacuum Insulated Panel (VIP) from **Kingspan Insulation**. With great links to the city centre this exclusive project offers occupants the opportunity to

benefit from city living in a leafy location. The Kingspan OPTIM-R Balcony & Terrace System installed by APP Construction was the product of choice for architects West & Machell, as it ensured an even transition between the indoor and outdoor levels onto the balcony without losing space, while also attaining an impressive U-value of 0.14 W/m²K.

01544 387384 [www.kingspaninsulation.co.uk](http://www.kingspaninsulation.co.uk)

## SIMONSWERK achieves academy status



The West Wing of London's Royal Academy of Arts has been renovated and upgraded for use by the New York-based Pace Gallery. High spec hinges from **SIMONSWERK UK** have helped Pace to set up its offices at the gallery in a compact space without compromising on working surroundings. The design placed high demands on the door fittings as Steve Welsh, contract manager at Suffolk & Essex Joinery

explained: "The size and weight of these doors required very heavy-duty hinges. The architect also required all the fittings to be concealed to give a completely clean finish within the classical interior of the Royal Academy building. Tectus hinges were the obvious choice..."

## A. Proctor Group beats hard to treat walls



Working with Historic Scotland and the Energy Savings Trust, the **A. Proctor Group** supplied Spacetherm Aerogel to projects undergoing fabric improvement for energy efficiency in traditional buildings. The Wells o' Wearie Cottage is a building from the 19th century. In this project a 10mm Spacetherm aerogel blanket was used,

secured to the wall behind an expanded mesh sheet and fastened with thermally de-coupled fixings. Hard to treat walls can be overcome utilising Spacetherm, an ultra thin insulation for thermal upgrades, saving valuable space without altering the exterior fabric of the building. Its remarkable performance is achieved through the use of flexible aerogel blankets.

01250 872261 [www.proctorgroup.com](http://www.proctorgroup.com)

## 4,000 Halo windows for social housing



Yorkshire Windows, a long-standing **Halo** customer has been busy installing thousands of new replacement windows in the Chesterfield area for a Rykneld Homes, an Arms Length Management Organisation (ALMO). When the leading Rotherham based fabricator and installer was asked to provide a solution to help retrofit

4,000 windows for the social housing project, the company chose to supply the System10 chamfered profile system from industry-leading Halo.

[salesenquiry@veka.com](mailto:salesenquiry@veka.com) [www.halo-uk.com](http://www.halo-uk.com)

## BRE A+ for Kingspan Tarec



The outstanding environmental performance of **Kingspan Tarec's** Kooltherm® Pipe Insulation has qualified it for a best possible BRE Green Guide 2008 Summary Rating of A+. To evaluate the environmental impact of products, BRE Global carries out full life cycle assessments using its 2008 Environmental Profiles Methodology. This data is then used within the Green Guide rating system to classify a product's performance

in a number of key areas and to award a summary rating from A+ (best) to E (worst). With its Green Guide A+ rating, the Kooltherm Pipe Insulation solution can contribute towards the award of several BREEAM credits.

01457 890400 [www.kingspantarec.com](http://www.kingspantarec.com)

# Fire in cavity walls: Regulations and solutions

When it comes to designing a building, cavity fire barriers may not be first on the agenda, but their importance was once again reiterated in a recent report from the National House Building Council (NHBC) Foundation. The document, *Fire in Cavities in Residential Buildings*, followed a review of real fire incidents, as well as a series of 21 fire experiments, and highlighted the importance of cavity barriers in keeping buildings safe, as well as the vital role installation plays if they are to perform in-situ. By Tom Foster, senior product manager at Isover

In the event of a fire, a concealed space or cavity in a building is a ready route for smoke and flames. According to Approved Document B (Volume 1 – Dwellings) of the Building Regulations, which sets out the fire safety requirements for homes, concealed cavities present 'a greater danger than would a more obvious weakness in the fabric of the building'. With this in mind, all UK fire building regulations have provisions to prevent smoke and fire moving quickly through concealed cavities and, as the NHBC report concludes, 'all generic forms of cavity barrier are capable of inhibiting the spread of fire and smoke'.

## Requirements

Cavity barriers play a huge role in reducing the spread of fire, but performance requirements vary depending on the structure they are being installed into. Factors such as building height and type – as well as whether any active fire protection solutions, such as sprinkler systems, are present – can increase the performance requirements for a cavity barrier's fire integrity to as high as 120 minutes. The minimum requirement is 30 minutes fire integrity and 15 minutes fire protection.

## A triple threat

As well as providing a flanking path for flames, cavities also present other problems. For example, both thermal and acoustic issues can come into play creating a 'triple threat', which must be managed effectively in order to provide a safe and comfortable dwelling environment that complies with Building Regulations.

## Controlling noise

Concealed cavities are a source of flanking sound transmission and as such, provide a path by which sound can travel both between and within constructions. Part E of the Building Regulations (Resistance to Sound) requires all buildings to meet tight standards in this area, and cavity barriers provide an effective solution by closing cavities and minimising noise movement.

## Heat transfer

Changes to Part L of the Building Regulations in 2010 introduced guidelines governing permitted



levels of heat loss through a party wall via thermal bypass. Such an effect can be countered by fully filling the cavity, or effectively edge-sealing the wall by installing a cavity barrier at the external or party wall junction, reducing thermal bypass and helping to create an efficient building environment.

## The importance of installation

The NHBC report reminds us that, in order for a cavity barrier to perform effectively, it must be 'installed in accordance with the manufacturers' instructions'. Cavity barriers, whether for fire, acoustic or thermal performance, are only as effective as their weakest link. Specifiers can source the highest quality cavity barriers for the building, but if they are not installed correctly they will not work as they should, impacting thermal efficiency and soundproofing, and potentially putting lives at risk.

Often systems don't perform as they should because they have been incorrectly installed leaving gaps between the barriers, meaning noise, air, fire and smoke can pass through. However, another reason can be that the wrong product has been specified or installed on-site. Barriers that are too small can move within the cavity during or after installation, creating breaks in the insulating barrier, while products that are too big can push out newly-laid

masonry work, damaging the wall.

## Getting the right advice

There is plenty of advice out there for specifiers and installers looking to find the best solution for their needs. The Structural Timber Association (formerly the UK Timber Frame Association) has published a has published Technical Document on Cavity Barriers, [www.uktfa.com](http://www.uktfa.com), which provides useful information regarding the correct installation of products. Each solution has its own degree of tolerance to variations in cavity width, so specifiers should also talk to manufacturers to determine the correct installation procedure for their cavity barrier.

In the event of a fire where the fixings, or any other materials or constructions may fail, properly installed cavity barriers will still provide protection against the spread of fire.

The unseen spread of fire within wall cavities has been an area of significant interest and debate recently, and the benefits that cavity barriers provide have been demonstrated time and time again. By using these simple solutions, and ensuring they are installed correctly, the safety levels of a building can be dramatically increased, and the potentially devastating spread of fire can be avoided.

## 2012 Olympics allow Schöck to demonstrate its versatility

As the supplier of structural thermal break products to the Aquatics Centre and the Olympic Village for the London 2012 Games, Schöck was able to demonstrate the diverse load-bearing thermal insulation solutions offered by the Isokorb range.

In the 11 blocks of the Olympic Village alone there was a huge demand, with around 10,000 thermally broken structural connections to be

considered. For podium slabs and pre-cast balcony applications the Isokorb type K, for concrete-to-concrete connectivity, was used. The type KST, type QP and Schöck SLD dowels combined to meet the requirement for securing the winter garden balconies. Types KS14 and KS20, for steel-to-concrete, provided the solution for connecting the various concrete frames to steel balconies. At ground and first floor levels enormous quantities of type K concrete-to-concrete thermal breaks were required for the large slab sections.

The Aquatics Centre also presented quite a challenge. It is a huge 17,500 capacity building covered by a 3,200 tonne steel roof; and thermal breaks had to provide cantilever connectivity at points around the perimeter of the building at roof level. Because the load cases included both positive and negative moments, and involved a supported steel structure, the configuration was to use two KST-QST22 units per connection, which are variants of the KST steel-to-steel module.

With steel having a relatively high thermal conductivity, total product performance integrity had to be assured at the Aquatics Centre. Schöck



The Schöck Isokorb® type KS

turned to the Oxford Institute for Sustainable Development (OISD) for endorsement. A thermal model was developed and a surface temperature factor (fRsi) analysis carried out. The result was a highly effective 0.82 for the thermal bridge in this case. As a comparison, for residential buildings, the temperature factor requirement is equal to or greater than 0.75. The chlorine content in the atmosphere was a further major consideration and to avoid any possibility of stress-corrosion affecting the KST units, special cap nuts had to be developed for protection.

*For your free copy of the extensive Schöck Specifiers Guide and/or the Technical Guide contact the company on 01865 290 890 or visit [www.schoeck.co.uk](http://www.schoeck.co.uk)*

**DAIKIN**  
altherma

### New air to water heat pump systems.

**Daikin Altherma NEW generation LT<sup>+</sup> system**

The new generation of air to water heat pump systems from Space Air®. The Daikin Altherma outdoor unit has been completely redesigned, the wall-hung indoor unit even more compact, energy efficient and stylish.

**T: 01483 252 252**  
**E: [enquiries@spaceair.co.uk](mailto:enquiries@spaceair.co.uk)**  
**W: [www.spacealtherma.co.uk](http://www.spacealtherma.co.uk)**

© 2013 Space Airconditioning plc. SA101630-11.13 \*Subject to conditions †LT = low temperature \*\*Renewable Heat Incentive



### Next gen ModuSat Heat Interface Units

Evinox has recently announced the launch of its next generation range of ModuSat Heat Interface Units for communal / district heating systems, designed and developed internally and manufactured in the company's new production facility. Building on the success of the existing ModuSat, the new range includes floor standing units with 80, 150, 200, 300 & 400 litre integrated hot water tanks, single & twin plate instantaneous units and units that provide combined heating and cooling. The comprehensive range of Modusat HIU's provides a solution for all sizes and types of property – from social housing apartments to luxury homes. Drawing on more than 12 years' experience in the communal heating market, Evinox has implemented a number of enhancements to create a product that is simple to install and use, and includes smart technology to provide additional functionality.

01372 722277 [www.evinox.co.uk](http://www.evinox.co.uk)

## New DX under floor cooling range



AET Flexible Space has completed several projects with its new Direct Expansion (DX) under floor cooling range, from the Flexible Space Under Floor Air Conditioning System, and it has proved to be an effective solution

to challenges frequently arising in the refurbishment marketplace. The CAM R410A and R407C DX Coil can be matched with all the major manufacturer's two-pipe and three-pipe heat pump and heat recovery systems to supply an area of up to 300m<sup>2</sup> with conditioned air. The downflow units are available with AC or EC fan options and can provide variable supply air temperature and variable air volume according to the area requirement.

01342 310400 [www.flexiblespace.com](http://www.flexiblespace.com)

## Housing Trust reduce energy consumption



The Liverpool Housing Trust has used **Atlantic Boilers'** VF range of boilers to significantly reduce energy consumption at its Friendship House Building, which contains 31 flats with resident staff support, lifts, lounges and guest facilities. Carried out with minimum interruption in heating services, the original

boilerplant was replaced with two of the Atlantic VF 100kW, all stainless steel, pre-mix gas, low NOx condensing boilers. In the following 12 months, the energy consumption was reduced by more than 25 per cent. Building management control was also added, increasing the energy saving to over 40 per cent.

## Headache of low water pressure eased



Self builders who need to solve the problem of low water pressure in housing now have the option of an all-in-one unit that provides low noise levels, ease of installation and automatic commissioning. The e.sybox from **DAB Pumps** uses an ergonomic design and cutting edge technology to bring a 'plumb and play' dimension to installation, saving time and money. It can be fitted vertically or horizontally on its anti-vibration mountings or onto a wall and can be plugged into the mains. Once

switched on, the unit automatically commissions, saving time, maintenance and hassle. Features like dry running and frost protection offer added peace of mind. It saves space at around 30 per cent smaller than other systems.

## Evance lead the way with small wind turbines



The UK market for 1.5kW–15kW wind turbines grew by nearly 40 per cent in 2012. The majority of customers chose the Evance R9000 turbine resulting in **Evance** growing ahead of the sector, capturing market share, with year-on-year installations up by 133 per cent. "Last year we installed half of the total

sold nationally – one in every two turbines were Evance R9000s," commented Kevin Parslow, CEO. Evance find that customers typically turn to small wind as an alternative source due to rising energy costs. "One of the key reasons that we succeeded in growing our market share from 33 per cent to 50 per cent last year is the sheer range of customers for whom our R9000 turbine appeals."

01509 215669 [www.evancewind.com](http://www.evancewind.com)

## Dynamic valve system generates energy savings



Dynamic valve specialist **Frese** is now on its third generation of pressure independent control valves, a solution which ensures heating systems have the correct balance during operation and precise temperature control. The valves, because of their precise control, can lead to up to a 50 per cent saving on the energy a circulating pump consumes and also lead to a major reduction on energy bills for a buildings as boilers and chillers work more efficiently. The Frese system has been used for both small projects and large scale schemes such as the Athletes Village at the London Olympics.

## Mitsubishi Electric expands delivery fleet



**Mitsubishi Electric** has begun operating a new fleet of delivery vehicles to cope with increasing demand for its Ecoda<sup>®</sup> air source heat pump. Six new Renault trucks join the existing DAF-LF hybrid vehicle. The three 7.5 tonne and three 18 tonne trucks are all decked out in the distinctive Ecoda<sup>®</sup>

branding to help promote the heat pump's energy saving and low carbon credentials. "Now that the government's plans for the domestic Renewable Heat Incentive have been announced, we are seeing a real growth in demand," explains Graham Temple, marketing manager for the company's heating systems division.

01707 282 880 [www.heating.mitsubishielectric.co.uk](http://www.heating.mitsubishielectric.co.uk)

## Healthcare Estates Exhibition helps Lucy Switchgear to raise its profile within the sector



**Lucy Switchgear**, a global leader in switching, protection and automation solutions for electrical distribution systems, exhibited for the first time at the 2013 Healthcare Estates Exhibition, highlighting its new Package Substation. Comprising a Sabre Ring Main Unit, AcuLok distribution cabinet and a fluid filled distribution transformer, the new Package Substation was developed in partnership with CG Power Solutions. It allows customers to seamlessly install a one-stop, best-in-class solution that matches Distribution Network Operators' specifications. Configurable for a wide range of power distribution and industrial applications the substation is fully warranted, providing customers with complete peace of mind. The stand also featured Lucy Switchgear's range of distribution substation solutions, designed to help customers achieve a safer, more efficient and reliable power distribution network. Commenting on the event, Vince Pioli, marketing manager for Lucy Switchgear, said: "The Healthcare Estates event gave us the ideal opportunity to raise our profile as a key supplier to the healthcare estates sector. We were able to share information with visitors to our stand on how our substation solutions can deliver safer, securer power supplies and energy efficient solutions."

01844 267 267 [www.lucyswitchgear.com](http://www.lucyswitchgear.com)

# Monodraught donates and installs Windcatcher X-Airs and Sunpipes for Children in Need Little Miracles charity build project

In September, natural ventilation, daylighting and cooling specialist Monodraught supplied and installed free of charge a number of its natural ventilation and daylighting systems to the Little Miracles project as part of BBC's charity Children in Need, featured in the BBC One special programme *DIY SOS: The Big Build*. The systems were used as part of a life changing transformation to the centre for disabled children in Peterborough.

Little Miracles is a Peterborough-based, parent-led centre support group and charity for children with additional needs, disabilities and life-limiting conditions. Set up by Michelle King in 2010 after she was refused access on public transport because of her son Oliver's medical equipment, Little Miracles now helps 700 families and has over 2,500 children registered to use the centre. It quickly became a registered charity and a lifeline to the many families that use it. A staggering 83 per cent

of the families that use Little Miracles live below the poverty line, so all services are free of charge and, for many of the children that use the centre, Little Miracles is the only place where they are able to communicate freely, make friends, and most importantly – be themselves.

Built in just 10 days in September, the Little Miracles site was erected on a gifted 2½ acre site, which includes an old, run down concrete prefab. Monodraught's contribution was to supply and install three WINDCATCHER® X-Air 140 natural ventilation systems complete with an iNVent® fully-automatic control system, to provide natural ventilation to the Main Hall. In addition, nine 300mm diameter SUNPIPE® natural day-light systems were supplied and installed to serve the main corridor next to the 'living wall' and toilet areas.



Contact Monodraught today on 01494 897700 or visit the website [www.monodraught.com](http://www.monodraught.com)



## What is the RHI scheme?

"The government is paying my heating bill for the next 20 years..."



## Has your business qualified?

Contact us today for a FREE no obligation feasibility study and site survey. We will ensure that you have the right information to make THE decision on your future heating and hot water requirements.

26a Virginia Street, Southport, PR8 6RZ

Call 01704 504857 or email [info@bc-energysolutions.co.uk](mailto:info@bc-energysolutions.co.uk)

Visit [www.bc-energysolutions.co.uk](http://www.bc-energysolutions.co.uk)



## Heating solution for Epsom Station

Epsom Railway Station has been redeveloped to provide new and improved facilities for the town alongside 117 new homes, a Travelodge hotel, and three retail units. The scheme has been developed by Solum Regeneration – a joint partnership between Network Rail and Kier Property that has been set up to deliver commercial development at railway stations and on underused railway land. Evinox Ltd, a local company based in Epsom, has provided a complete communal heating solution for the station development. This includes M&E design support, heat interface units and an energy metering and billing service. Each apartment features an Evinox ModuSat heat interface unit with integrated hot water storage tank. The ModuSat draws energy from the main heating primary circuit delivered from the energy centre. This is in line with latest legislation encouraging centralised plant rather than the use of individual heating and hot water systems. The ModuSat storage model enables the centralised plant space to be greatly reduced due to the increased thermal storage facility being utilised in each apartment.

01372 722277 [www.evinox.co.uk](http://www.evinox.co.uk)

# Domestic underfloor heating – warming up homes the right way



Underfloor heating has become increasingly popular within the domestic market, and being able to offer it, either as an added feature or as standard, is a key selling point for housebuilders and property developers. However, even though underfloor heating isn't a new technology it will often be the first time many potential customers have had this kind of system in their house. While this means housebuilders and developers can market it as a premium feature, it's also important that customers feel they're getting a quality system that will last. Neil Young, applications manager for Indoor Climate, Uponor UK, explains more

## Adding value with underfloor heating

Underfloor heating is no longer the preserve of higher end properties alone; reduced costs and economies of scale mean that it can replace traditional heating systems in new developments either as a standard feature or an added extra.

While costs are lower, it is still far from being considered a standard technology or feature by the general public, providing housebuilders and developers with the opportunity to sell it either as an optional extra or as a standard key feature to increase returns. Because of this housebuilders and developers need to be able to demonstrate that they are offering a premium product and assuage any concerns buyers may have.

Purchasing a cheaper system can make this task a lot harder. For example one of the key concerns for many homeowners is escalating energy costs. Using energy efficient underfloor heating can dramatically reduce costs over the life of a system. How these are quantified in a way that can be translated to customers and how long the life of the system is will vary from system to system. However, it can be broadly stated that the lower the initial cost, the lower the savings made by the end user and the harder it will be for developers to demonstrate added value. Also of concern to potential buyers will be whether or not a warranty is offered and the availability of technical support following purchase. Importantly, the price differences here are in the region of hundreds of pounds, not thousands. So while it may make sense to purchase on a cost only basis at the development stage, an understanding of whole life costs will make it much easier to sell the property overall and can add value.

## Getting the balance right

Balancing is a vital part of the commissioning process but unfortunately not all suppliers will make developers aware of this. If a property's underfloor heating system is not properly balanced it will operate on a uniform flow rate meaning that all rooms – regardless of size or orientation – will



receive the same level of output meaning some rooms will be overheated and others will be under heated. This can become a problem for a developer particularly in the early stages of a development's occupancy when the responsibility for correcting any issues lies with them.

Installers can manually balance each room, but that will only result in the optimum flow rate and heating output for that specific indoor climate condition. Any subsequent balancing changes will still have to be carried out by an installer, at an extra cost to the homeowner.

One solution is to install 'auto-balancing' controls to the manifold, which replaces the need for the manual balancing of the loops or pipes. Instead of balancing the system for one peak load, the auto-balance technology calculates the actual energy needs of the individual rooms over the heating season and adapts to those needs, balancing the system through the changing seasons and throughout the property's changing usage patterns. In turn, this gives more even floor temperatures and faster system reactions with lower energy consumption than a standard on/off system.

For housebuilders, the benefit of an auto-balanced system is reduced complaints, meaning contractors aren't needed to correct perceived faults and profit levels are maintained.

## Added benefits

While the functionality and energy saving potential remain the primary benefits of installing an underfloor heating system, it's suitability for modern developments, from a practical and aesthetic perspective, should not be ignored. With space at a premium in many housing developments, underfloor heating can make rooms look bigger and less cluttered. It can also play a crucial role when potential buyers start considering usable space. Added to this the fact that installation is quick and easy and underfloor heating systems can be tailored to rooms of any shape or size.

Ultimately, installing underfloor heating can add value to any property. However, in order to take full advantage of the opportunity, housebuilders and developers need to ensure they select the best possible project partner who can provide the features and on-going support that will make potential buyers sit up and take notice. Similarly, energy costs are only set to increase so installing energy efficient measures that also have the hint of luxury allows developers to increase their up-front asking price.

# SE Controls solves multi-storey residential corridor overheating



An effective solution to overheated corridors and communal spaces in multi-storey residential buildings has been developed by SE Controls, which exploits the versatility and performance of the company's smoke ventilation systems. Although routing hot water pipe work through corridors as part of a distributed heating system provides a simple method of feeding individual apartments, it can make the corridors uncomfortably hot for residents and maintenance teams working within the building. To combat this issue, SE Controls has designed a solution, which allows its smoke ventilation systems to also operate as a precisely controlled passive or mechanically assisted natural ventilation system to help maintain comfortable temperatures and energy efficiency. By using sensors to monitor the temperature on each floor, the smoke ventilation system's control panels automatically manage the proportional opening of end of corridor vents, smoke shaft doors and roof vents, which allows the controlled venting of hot air to cool the corridors.

**Call SE Controls at 01543 443060  
or email [info@secontrol.com](mailto:info@secontrol.com).  
Visit the website [www.secontrols.com](http://www.secontrols.com)  
for more information**

**MORE THAN JUST A STOVE!**

**Heat the house not just the room!**

- Makes a huge saving against your gas or oil heating bills
- Burns wood logs
- One charge of 10kg logs heats the appliance to full heat, to release that heat for 12 hours after fire has gone out
- 25% of stored heat still released after 12hrs (model 678)
- No ducting or water connections needed – just leave your doors open to allow heat to circulate (does not overheat the room it stands in)
- Made in England, HETAS approved and DEFRA exempt for inner city installations
- Four models in the range
- All colour options available

**Email [sales@landyvent.co.uk](mailto:sales@landyvent.co.uk) or call Landy Vent UK Ltd 01527 857814  
Ask about our new E730 oval model just released!  
[www.eccostove.com](http://www.eccostove.com)**



## Year long trials prove Ecodan's performance

Mitsubishi Electric has released the results of independently audited data from year-long trials into the performance of its Ecodan® air source heat pump system at 23 sites around the UK. Results show that Ecodan achieved an average seasonal performance of 2.9 when measured against the government's preferred boundary condition for calculating heat pump performance, known as Seasonal Performance Factor (SPFH4). As calculated by the Energy Saving Trust, Ecodan demonstrated average estimated annual operating cost savings of 8 per cent over a gas condensing boiler, 36 per cent over an oil condensing boiler and 67 per cent over a direct electric heating system. Estimated carbon emission savings of 21 per cent, 41 per cent and 67 per cent, respectively, were also demonstrated and the EST report also shows that after future grid decarbonisation, these carbon savings rise to 85 per cent over gas and 88 per cent over oil. "Many heat pumps on the market report high performance levels that are based on a static factory test condition and although these are useful comparative tools, they are no substitute for real world performance data," said Tom Byrne, assistant technical manager at the Energy Saving Trust and project manager for the field trials. 01707 282880 [www.heating.mitsubishielectric.co.uk](http://www.heating.mitsubishielectric.co.uk)

## New Active ventilation solution from Passivent



For the continuing drive for zero carbon buildings, Ventilation specialists **Passivent** has launched the Passivent Active Range, a unique new fully automatic system, achieving good air quality with minimal energy consumption and exceptional acoustic attenuation. The Range, combining natural ventilation, mechanical assistance,

unique SoundScoop acoustic technology and intelligent control, gives effective and energy efficient ventilation throughout the year and in all weather conditions.

## Daikin Altherma wins SAPQ accreditation



The new, improved Daikin Altherma LT split range of air to water heat pumps, from **Space Air Solutions** of Guildford, is not only more efficient than the range it replaces but has achieved accreditation in Appendix Q of SAP. SAP assessors can now use actual equipment performance figures rather than default ratings, when assessing the performance of a building. Daikin Altherma's SAPQ accreditation applies to the complete 4kW to 16kW Split LT range. For social housing

providers these systems not only reduce energy consumption and carbon emissions but importantly for their tenants, reduce fuel bills.

## TROX chilled beams score top marks



TROX chilled beams and flow rate controllers are ensuring that an impressive new sixth form college in the north east of England achieves the ideal indoor environment for learning without costing the earth. The HVAC products supplied to meet the demanding requirements included TROX Multi Service Chilled

Beams (MSCBs) and variable volume flow rate controllers. The MSCB's are based on the energy-efficient air-water technology of the popular TROX model DID632 active chilled beam. These units are ideally suited to areas with high cooling loads, combining the aerodynamic properties of ceiling diffusers with the energy benefits of load dissipation using water.

## Eliminator eliminates debris



**Sentinel's** new technology heating system filter – Eliminator – has been very well received by installers all across the UK. The Eliminator's four powerful hydro-cyclones force clean water out of the top of the filter and spin all types of suspended system debris down into the bottom of the collection chamber. Four strategically positioned magnets accelerate the capture and removal of any magnetic debris. Vitrally, the unit will never block as the design arrangement of the cyclone chamber ensures continual flow through the filter, even when the collection chamber is full.

01928 588330 [www.sentinel-solutions.net](http://www.sentinel-solutions.net)

## Stelrad embraces BIM



**Stelrad Radiators** is embracing BIM and now has a number of exciting products on BIMStore ready for architects, engineers and contractors to integrate into future projects. Stelrad has invested in several core ranges with the aim of becoming a shared knowledge resource to support decision making about a facility. By simply selecting the product, placing it in their

design document and putting it in place, this allows designers to visualise and utilise real components at the planning stage. Stelrad will be providing a number of their products that currently feature heavily in commercial projects including their Concord, Column and low surface temperature (LST) radiator ranges.

0870 849 8056 [www.stelrad.com](http://www.stelrad.com)

## Xpelair unveil new training centre



**Xpelair Ventilation Solutions**, one of the UK's leading providers of ventilation systems, has opened a new training centre at its Peterborough site following an extensive investment programme. The centre forms part of the company's multi-million pound relocation to state-of-the-art facilities, which are due to be

officially opened later this year. The premises have been equipped with a wide range of Xpelair's market leading ventilation solutions, including traditional fixed systems, modern demand controlled ventilation (DCV) systems and Mechanical Ventilation with Heat Recovery (MVHR) systems.

## It's all in a days work with Schlüter®-DITRA-HEAT-E underfloor heating



Cutting installation time by up to 70 per cent, boasting an extremely low assembly height (5.5mm) and providing one unique underfloor heating system all available from a market leading innovative manufacturer – Schlüter®-DITRA-HEAT-E has arrived! **Schlüter-Systems** has developed a unique electrical underfloor heating system that eradicates sticky situations, measuring mistakes and self levelling and primer layers. Leaving other conventional systems out in the cold, Schlüter®-DITRA-HEAT-E is the perfect all-in-one integrated solution for use under tiles and natural stone flooring. Ideal for refurbishment and renovation projects thanks to its uncoupling and crack-bridging properties, Schlüter®-DITRA-HEAT-E is unlike anything else available due to its loose heating cables, which are fixed down to the uncoupling mat free of tape as a result of its unique studded design. Time-saving benefits include: easy press to lay cable (no tape or glue); no self-levelling layer or primer laying; loose heating cable for greater flexibility; uniform spacing of every three studs; integrated and balanced packages; and it can be tiled immediately. Joachim Backes, managing director at Schlüter-Systems, comments: "The end result is an underfloor heating system that really does tick all the boxes, whether you're the specifier, installer or the homeowner."

01530 813396 [www.schluter.co.uk](http://www.schluter.co.uk)

# Latest generation of Cool-phase is in a class of its own for low energy ventilation and cooling



**C**ool-phase is a low energy, cooling, ventilation and heat recovery system that reduces the running costs of buildings, while creating a fresh and healthy indoor environment without compressors or hazardous coolants. The system uses intelligently controlled phase change material (PCM) to actively ventilate and cool buildings, maintaining temperatures within the comfort zone, while radically reducing energy consumption by up to 90 per cent compared to conventional cooling systems.

The improvements provided by the new generation follows an intensive and all-encompassing two-year development programme during which the Monodraught R&D team has applied innovative new design practises and some of the most advanced manufacturing technologies

available to create ground-breaking improvements.

As well as dramatically reducing design and development time the programme has provided significant enhancements and improvements in almost every aspect of the Cool-phase system.

Key customer benefits of the new system include: a more stylish, compact, lightweight and stronger housing with fewer parts to provide much improved acoustic and thermal performance. In addition, almost unbelievable fan performance has been achieved to dramatically reduce energy consumption – cutting power usage during typical daytime operation to between 7 and 20 Watts. Typical running costs are approximately £20 per year and due to the reduced power consumption Cool-phase is now significantly quieter in operation!

*Contact Monodraught by calling 01494 897700 or email [cool-phase@monodraught.com](mailto:cool-phase@monodraught.com). Visit [www.cool-phase.net](http://www.cool-phase.net) for more information*



## Achieve environmental sustainability

With the strongest hints published so far that the housing market is on the up, **Warmup** advises that if you want to achieve environmental sustainability, and particularly energy efficiency, underfloor heating is the best choice when it comes to heating in CSH Level 4 housing or higher. There are two underfloor heating systems to choose from: electric and hydronic. The Warmup heating system is controlled by its unique 3iE energy-monitor, which allows end users to manage and control energy usage and realise savings of at least 10 per cent on utility bills. Warmup offers a Lifetime Warranty and SafetyNet™ Installation Guarantee; should a system be accidentally damaged during installation, Warmup will replace it free of charge. It also offers full knowledge on how its systems will operate and function along with energy usage and running costs at design stage. This is obtained from its Research Centre and post occupancy monitored housing programme including the BRE (Building Research Establishment) Renewable House.

0845 034 8270 [www.warmup.co.uk](http://www.warmup.co.uk)



## Precision ventilation control for university

Precision window actuators from **SE Controls** are being used as part of an energy efficient natural ventilation system at Sheffield University's Nuclear Advanced Manufacturing Research Centre (NAMRC), to help maintain a comfortable environment. To provide the high degree of control required, SE Controls installed a range of chain actuators, which are linked to the building management system and are used to control the operation of the high and low level vents. Twenty TGC0 24 15 actuators with a 350mm stroke length were installed on the building's high level exhaust vents, while the need to protect against finger entrapment on the low level louvres prompted the selection of 18 SE Controls' TGC0 24 20 'Easi-Drive' compact actuators each with 160mm stroke length. SE Controls' Project Manager, Darren Wainwright, said: "By using precision actuators to provide incremental operation of the system's vents and louvres, it helps ensure that required performance is within the specified design parameters."

## Bolton club is a fan of Xpelair



Xpelair has supplied its market leading GX12 commercial fan to the Bolton Lads & Girls Club, after the club's old extraction unit was destroyed by a fire on the premises. The club then reached out to the Twitter community to ask about possibility of supplying a fan. Xpelair saw the request and was able to supply its GX12 fan that was perfect for the venue as it is cheap to run and exceptionally quiet thanks to its pre-balanced sickle impellers that reduce noise ingress. The units are also reversible for consistent volume output and feature variable speeds for greater control. They have been designed with ease of fitting in mind in order to reduce on-site installation time.

## AET continues to develop unique technology



Meeting current market requirements for energy efficient products, AET has developed a fan terminal unit that sits at the heart of the AET Flexible Space Underfloor Air Conditioning system. Fitting into a standard 600mm floor void, it can provide up to 1,500m<sup>3</sup>/h of cool air from a single unit, which can minimise 'hot spots', due to specific grilles which allow direct air to selected points while running at a low speed and noise level. Compared with large central plant systems, energy savings have been recorded at 20-30 per cent. Floor based systems use less fan power as they operate at low pressures, with virtually no ducts. They use minimum pipe work and provide high standards of indoor air quality.

01342 310400 [www.flexiblespace.com](http://www.flexiblespace.com)

<b>KITCHENS</b>	<b>TILES</b>	<b>BATHROOMS</b>				
<b>WORKTOPS &amp; STEPS</b>	<b>WOODEN FLOORING</b>	<b>MARBLE CLADDING</b>				
<b>APPLIANCES</b>	<b>MOSAICS</b>	<b>GRANITE</b>				
<b>3 FLOOR SHOWROOM : CAD DESIGNS , MARBLE &amp; GRANITE FACTORY TEL.: 020 8961 77 00 WWW.DIRECTSUPPLIESLTD.COM</b>						

## New woodburner 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 believe 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. Wood burning stoves deliver 80 per cent efficiency.

01934 750 500 [www.eurostove.co.uk](http://www.eurostove.co.uk)

## Opulence from Abode



Opulence, a new traditional style bathroom collection from Abode, is a true classic styling with a very modern twist. With smooth curved spouts and voluptuous body design, Opulence will look equally at home in both a contemporary or modern bathroom.

The beauty of this range is that it has been manufactured for low pressure usage with an affordable price tag. This collection of beautifully designed, round, chrome finish taps has been created especially for the UK market and forms part of a new range of bathroom brassware products from Abode, incorporating several styles of taps for use in bathrooms, en suites and cloakrooms.

01226 28 34 34 [www.abode.eu](http://www.abode.eu)

## apollo monza aluminium column radiator



modern contemporary aluminium column radiator  
ideal for low temperature renewable systems  
unique design, half the weight of steel  
vertical and horizontal in 40 different sizes  
3 days delivery for white  
7 days for colour (46 to choose from)

[www.apolloradiators.co.uk](http://www.apolloradiators.co.uk)

## Bliss bathroom basin taps from Abode



The new Bliss range from **Abode** has been created especially for the UK market and forms part of a new collection of bathroom products which have a strong, yet versatile design. There are several basin tap options available, making Bliss suitable for all styles of bathrooms. There are three heights of monobloc mixers, dual handle mixers with flat planate spouts with paddle style levers, plus a wall mounted mixer – all available in chrome finish.

01226 283434 [www.abode.eu](http://www.abode.eu)

## Grand Designs acoustic plaster



**Oscar Acoustics'** new extra smooth Oscar Elite acoustic plaster was chosen for a recent *Grand Designs* project in Holland Park.

With hard minimal surfaces like marble floors and plastered walls, echoing in space was always going to be an issue.


Oscar Elite was selected for its smooth appearance, incredible sound absorbing properties and ability to be locally and invisibly repaired, negating the need for expensive pre handover re-sprays. The space is now a relaxing place in which to spend time.

01474 854 902 [www.oscar-acoustics.co.uk](http://www.oscar-acoustics.co.uk)

## The brightness and warmth of HI-MACS® gives a soul to the Maktub children's hospital



In a project inspired by the emotional sensitivity and positivity of children, Architect Elisa Valero went beyond technical aspects to create a space that reduces the sense of isolation in children with immune system deficiencies at the Maktub Centre, in Madrid. The new design of the space aimed to meet functional necessities through eliminating or transforming what are normally perceived as hospital elements. The aims were to enlarge the structure while eliminating obstacles that impeded the view outside, requiring extraordinary precision and coordination. This is why the architect decided to use different materials, including **HI-MACS®**. The design required a thermoforming material with an elegant, simple design that eliminated joints between the various structures. "I was looking for a long-lasting material that met hospital regulations and could be modelled to eliminate corners in the corridors, to avoid being hit by beds coming in and out of the rooms," said Valero. This, together with colours and shapes, helped create a pleasant, playful atmosphere. Thanks to its aseptic properties, the fact that it is easy to clean and resists chemical agents, acrylic stone is recommended in clinics and healthcare spaces that have to respect the highest standards of hygiene. The aesthetic qualities of stone create warm, welcoming environments for patients, even in spaces that are not usually like this. Several studies have shown that this has a positive influence on patients.



**SALES  
DESIGN  
INSTALLATION**

Sound & Lighting  
Scenery & Paint  
Curtains & Track  
Make-up & Costume Accessories  
Pyrotechnics & Special Effects

**L Lancelyn**  
THEATRE SUPPLIES

Oxford branch: 01865 722468  
Wirral branch: 0151 334 8991  
[www.lancelyn.co.uk](http://www.lancelyn.co.uk)



## A discreet flykiller

**P+L Systems** understands the extensive planning and time that goes into architectural design and how this can be subsequently compromised as a result of unsuitable fixtures and fittings. Old fashioned and unsightly flykillers often spoil the contemporary design of buildings, don't let this happen with your next design project! Why not consider including **Aura**, an innovative flykiller by **Insect-O-Cutor**, which unlike traditional flykillers has a discreet design that is perfect for a wide range of front of house applications. Flykillers are required in all areas where food is prepared, consumed, sold or manufactured and so flykillers will be subsequently installed in many of the buildings that you design. To ensure that the flykiller is in keeping with the style of the building, specify **Aura** as part of your design. The **Aura** is the ideal decorative flykiller for any bar, restaurant, hotel or office reception area. Stylish and contemporary, the **Aura** decorative flykiller is an ultra discreet unit offering an elegant, modern aesthetic alongside innovative features.

[info@pandlsystems.com](mailto:info@pandlsystems.com) [www.insect-o-cutor.co.uk](http://www.insect-o-cutor.co.uk)

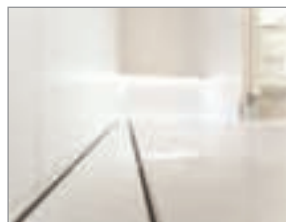
## Spectrum range offers a world of colour



Recently launched at 100% Design, **Solus Ceramics** introduces the exciting Spectrum range, a series of hand-made encaustic cement tiles. The aptly named range consists of 60 different colours from vibrant blues and greens to pastel pinks and reds. The tiles are available in a very diverse variety of small, square and rectangle shapes and a number of different thicknesses. In addition Solus Ceramics can also offer Spectrum in hexagon and octagon options, two of the most on-trend shapes for the coming year. Finally every single colour of the Spectrum range can be used together to create bespoke 200x200mm squares or 200x230mm hexagon designs.

0121 753 0777 [www.solusceramics.com](http://www.solusceramics.com)

## Stunning new stone-infill grill



In the last ten years wetrooms have seen rapid growth in the UK, with the open plan alternative having a major impact on the bathroom layout and design of hotel suites, luxury homes and the residential housing market. **CCL Wetrooms** has unveiled the latest development in the aesthetics of wetroom drainage – the new Stone-Infill

Grill – a stunning way of creating a continuous stone floor, virtually unbroken by the line of a stainless steel drainage grill. The Stone-Infill grill is suitable for use with natural stone and porcelain tiles, which are simply inserted into the empty Infill Grill, creating a beautiful finishing touch to any wetroom.

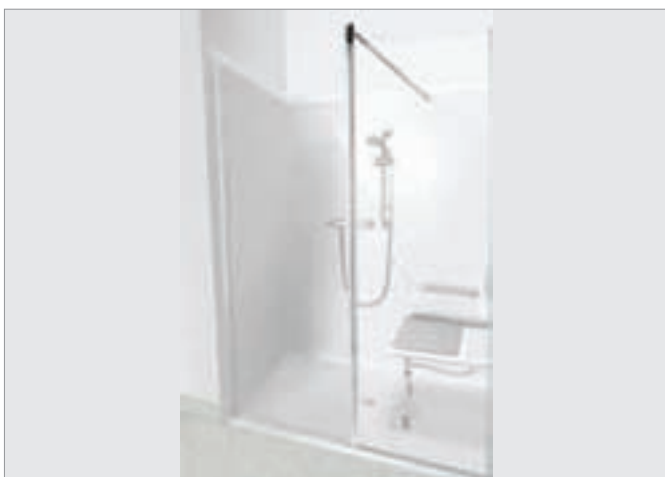
0844 327 6002 [www.ccl-wetrooms.co.uk](http://www.ccl-wetrooms.co.uk)

## Trend success leads to launch of new bathrooms collection



Following its success with kitchens, Trend Interiors, part of the **Mereway Group**, has extended its portfolio to offer a selection of affordable quality bathrooms in modern finishes and designs that are spot on for today's market. This new collection offers nothing but simplicity in selection, planning and ordering. The range offers a straightforward choice of colours and finishes that are right on trend, and an easy to use pricing guide that clearly bundles products together to form popular, suggested cabinet sets. The range presents modular and fitted arrangements, which are supplied rigid and 'ready to fit' making them easy to cost, simple to order, and easier for fitters to install. A new 35-page brochure presents sleek, clean and stylish modular arrangements and floorstanding fitted run combinations that offer the perfect platform for stunning worktop designs, beautiful sanitaryware options and a selection of width and depth cabinets. No space is wasted as units incorporate a range of storage options such as open shelves, drawers and super slim units at just 150mm wide. For those on a limited budget, these value bathrooms are guaranteed to impress. Quality slab doors and matching cabinet finishes are offered in four different options, Matt and Gloss White, Lancaster Oak and Tobacco Walnut, to create beautifully modern bathrooms, which are high on style.

[www.trendbathrooms.co.uk](http://www.trendbathrooms.co.uk) 0800 028 4466



## New modular shower units for healthcare

**Gainsborough Specialist Bathing** has launched a new range of assisted showering solutions. Part of Care in Bathing, Gainsborough has designed, manufactured and installed specialist baths in the UK for over 25 years and these new modular shower units provide architects and building specifiers with several clear advantages. Available in three sizes, these easy access shower modules are supplied with low-level shower tray, decorative wall panels, padded folding seat, fluted grab rail and WRAS compliant shower unit. Ideal for installations in long-term or acute care settings, they are highly durable and exceptionally versatile. This new range incorporates MicroGuard antimicrobial protection technology, which helps to eliminate cross-infection. TMV2/3 or Electric Care showers all deliver thermostatically controlled water and there is a choice of either half-height shower doors or flat glass screen. Gainsborough has a network of skilled fitters offering a complete installation service meaning it can provide end-to-end support.



## Changing Places to achieve inclusive status

The target of becoming 'the most accessible city in Europe' is set with the opening of a new public toilet facility in Manchester's Town Hall Complex in Lloyd Street, which enables disabled people and their carers to enjoy the city without worrying about access to appropriate toilets. With equipment supplied by Manchester-based **Clos-o-Mat**, the new Changing Places public toilet is the first of its kind planned by the City Council. Considerable research and consultation was undertaken at the design stage, in the belief that a Changing Places toilet would make a huge difference to anyone who needed help to use the toilet, and who would otherwise have to either curtail their trip, or not visit the city centre at all. The toilet is larger than the usual wheelchair accessible toilet, to accommodate the user and carer, and is placed to allow transfer from either side. There is a height adjustable changing bench and ceiling hoist, plus a shower and washbasin.

# Blackpool Hospital benefits from relationship with Rada

Washroom controls manufactured by Rada, a pioneer of both mechanical and cutting edge digital washroom technology, have been supplied to the Blackpool Teaching Hospitals NHS Foundation Trust in Lancashire as part of an ongoing relationship.

This year has seen Rada V12 showers, Rada Thermotap-3's and wall mounted Rada Safetherm Clinical Taps supplied extensively at the Stroke and Observation Unit of Blackpool Victoria Hospital as part of the Trust's commitment to providing patients and staff with purposefully designed, efficient washroom and showering facilities.

Rada V12 shower valves regulate flow to allow for increased water savings and are Buildcert TMV3 scheme approved. The exposed V12 option features Rada's Insutech™ technology, which reduces the surface temperature to a safe level.

Also installed in large numbers as part of the Stroke and Observation Unit project were Rada's wall mounted Safetherm Clinical Taps. Its innovative design minimises water retention in the body and spout for improved bacteria control and

feature a sequential long lever control for easier use under hospital protocols and improved hygiene.

Safetherm Clinical Taps were designed with nurses and other hospital staff in mind, with a 120° arc of movement utilised in its operation allowing users to operate the lever control easily with their elbows. As with the Rada V12 shower, Rada Safetherm Clinical Taps feature Insutech™ technology and are Buildcert TMV3 approved.

*"Our relationship with Rada goes back many years. This consistency enables us to access ongoing specialist support and provide the highest quality products and systems for the benefit of patients, staff and visitors."*

Bill Haughton, Technical Officer at Blackpool Teaching Hospitals NHS Foundation Trust

Please visit [www.radacontrols.com](http://www.radacontrols.com) for more on Rada's healthcare offering



## MODULAR SHOWERING SOLUTIONS

- 35 YEARS OF INNOVATION
- ISO 9001 ACCREDITED
- LEAK PROOF
- EXTREMELY DURABLE
- HYGIENIC
- EASILY INSTALLED
- 3 YEAR GUARANTEE

Many other standard and bespoke design variations are available

**TAPPLANES**  
TRANSFORMING INDUSTRIES

Telephone 01423 771845 Email [admin@taplanes.co.uk](mailto:admin@taplanes.co.uk) [www.taplanes.co.uk](http://www.taplanes.co.uk)

## MAXXUS

the STRONG one

Wetroom floor former (trays)

The rest bend like bananas

Avoid tile cracking – MAXXUS takes a 470kg load

470kg

9 SIZES – LOW PRICES  
Ask for our 44 page Price List

**wetrooms made easy**  
a winning combination

[www.wetroominnovations.com](http://www.wetroominnovations.com) 01629 815500

# Regulating washroom design

Designing a commercial washroom is about more than just aesthetics, as Andrew Taylor of Maxwood Washrooms explains in his guide to some of the key regulatory requirements surrounding the design of sanitary facilities to suit all user groups

## Building Regulations

Whether it's a new build project or a washroom refurbishment, the provision of sanitary conveniences and hand washing facilities is regulated by a wide range of standards. For example, Part G of the Building Regulations contains guidelines on the number and type of facilities required in a building to meet the needs of all user groups.

Generally speaking, separate toilets are required in workplaces where there are both male and female employees. However, if the total number of employees based at a particular location is 10 or less, and there are two or fewer employees of one gender, then unisex washrooms may be provided. These can be what are known as 'superloos', which are single units complete with toilet and washbasin, or larger washrooms designed to be used by men and women, with lockable toilet cubicles and shared hand-washing facilities.

## Disability Discrimination Act

Another consideration for washroom designers is Part M of the Building Regulations, which relates to access and use of buildings. This includes ensuring easy access to washrooms for everyone, regardless of age or physical ability.

In addition to meeting the accessibility requirements of Part M, commercial washrooms must be designed to meet the strict criteria of the Disability Discrimination Act 1995 (DDA). This requires that reasonable steps are taken to prevent a disabled person from being placed at a substantial disadvantage when accessing goods and services.

As far as washrooms are concerned, the DDA covers a variety of design considerations to ensure facilities can be accessed with ease by someone with a disability, whether that's a wheelchair user or a person with impaired vision, for example. One of the primary requirements under the DDA is the provision of at least one wheelchair accessible



cubicle in any non residential building. In addition, where there are four or more cubicles provided in a washroom, one of these must be of an enlarged size to dimensions set down in the DDA Doc-M guidelines.

Cubicles for disabled users should include grab rails, outward opening doors with clear access to the WC itself, a raised toilet pan, and be fitted with indicator bolts and doors which can be opened with a closed fist – to name but a few!

## Visual contrast

Although the choice of colour and finish for a commercial washroom is clearly part of the aesthetic specification, DDA regulations will also need to be considered in terms of the LRV (light reflectance value) of surfaces. So, while an all-white washroom might make a dramatic design statement, it wouldn't be a DDA-compliant solution for a commercial building. This is because the regulations require sufficient visual contrast between different areas of the washroom, such as door frames and sanitary fittings

to walls, to enable visually impaired people to distinguish between these areas by virtue of the difference in light reflecting from the surface. The mandatory minimum is a 20 point difference in the luminance of colours used but a differential of 30 points is in line with current best practice. It should also be noted that wall finishes and floor coverings should contrast with each other in terms of both colour and texture to help the visually impaired navigate the washroom safely.

***'As far as washrooms are concerned, the DDA covers a variety of design considerations to ensure facilities can be accessed with ease by someone with a disability'***

*Continued overleaf...*

## Workplace washroom standards

In addition to Building Regulations, designers of workplace washrooms are advised to consult recommendations contained in the government's Workplace (Health, Safety and Welfare) Regulations. These relate to a range of relevant issues, such as cleanliness, hygiene, ensuring user privacy with the provision of lockable doors, adequate lighting and ventilation.

The choice of materials can assist in achieving some of these standards. For example, high pressure laminates offer a hygienic, easy to clean option for cubicle doors and other surfaces, while SGL (solid grade laminate) is usually the preferred material for cubicles subject to high use, and possible abuse. This high performance material is extremely resilient to knocks and bumps, and being impervious to water means it is easily washed down to help maintain high standards of hygiene.

In addition, manufacturing walls and vanity troughs from a single piece of solid surface material creates an attractive, seamless appearance and also reduces the number of joints. This makes for easier cleaning and means there are less unhygienic crevices where dirt can accumulate. Specifying non-touch fittings, from automatic hand dryers to electronic sensor taps and toilet flushing systems, is also worth considering, ensuring a hygienic washroom environment.



## Reducing costs

Designing commercial washrooms that satisfy current regulatory requirements can also bring practical benefits. Non-corrosive metal fittings and hardwearing, easy-care laminate panels are not only hygienic solutions; they also offer superior durability, particularly in high traffic environments, which helps to reduce lifetime costs relating to maintenance and replacement.

Last but not least, compliant, well-designed washrooms, which successfully combine style and functionality, can help maximise the sales or rental potential of new and refurbished commercial buildings.

*'...the regulations require sufficient visual contrast between different areas of the washroom, such as door frames and sanitary fittings to walls, to enable visually impaired people to distinguish between these areas...'*

## An elegant solution to an age old problem.

This modular unit incorporates all the facilities needed to wash, soap and dry your hands standing in the same position, including the latest technology for infrared sensor taps, high speed low energy hand dryers and infra-red foam soap system.

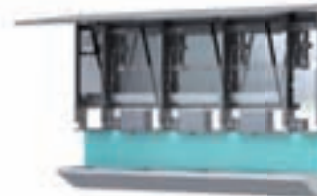


t: 01424 20 22 24 [www.dolphindispensers.co.uk](http://www.dolphindispensers.co.uk)



## Dolphin Behind Mirror complete washroom system

- Elegant and clean design, fits into any project
- Easy access for janitorial duties, with hydraulic lifting panels
- Sensor activated taps, soap and hand dryers
- Multi-feed system, LED lighting. 'Plug and Play'



washrooms worth experiencing

Dolphin Dispensers 2 Haywood Way, Hastings, TN35 4PL  
t: 01424 20 22 24 f: 01424 20 52 00  
e: [info@dolphindispensers.co.uk](mailto:info@dolphindispensers.co.uk) [www.dolphindispensers.co.uk](http://www.dolphindispensers.co.uk)

## Success for Ellis Furniture with HI-MACS®



Ellis Furniture's new curvy Reflections bathroom furniture range features a sweeping yet elegant single-piece HI-MACS® solid surface vanity. This design has a sleek, almost minimalist look, while maintaining all the functionality and storage needed in a modern bathroom. The centre-piece to the design is the 50mm curved worktop, hand crafted using a double layer of Alpine White HI-MACS® material and polished all round to create a beautiful smooth touch finish. The cube cabinet with soft close drawer provides ample storage for towels and bathroom essentials, while the decorative wall panel and curved corner mirror provide additional storage.

01484 514 212 [www.ellisfurniture.co.uk](http://www.ellisfurniture.co.uk)

## Kaldewei – Hub by Premier Inn

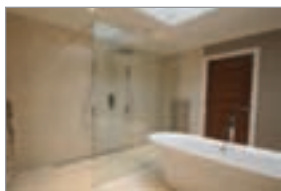


When guests enjoy a shower in the new 'hub by Premier Inn' hotels, it will be with a Duschplan shower surface from Kaldewei, made from precious 3.5mm steel enamel. Designed as a new generation of compact, city centre hotels, the first hub by Premier Inn will open in London in autumn 2014. Comfort and style are assured thanks to ingenious, contemporary room design and excellent electronic connectivity. Duschplan is a classic shower surface from Kaldewei with a comfortable depth of 6.5cm.

Available in a wide range of sizes, a bespoke model was created to perfectly suit the layout of the hub by Premier Inn bathrooms.

01480 498 053 [www.kaldewei.co.uk](http://www.kaldewei.co.uk)

## CCL Wetrooms' innovative drainage solutions



CCL Wetrooms, a leading wetroom specialist in the UK, has extended its popular Linear Screed Drain range to include a new wall drain option, which offers architects and specifiers a sleek, contemporary finish to wetroom installations. At a market leading height of only 67mm, the drain ensures that

even the highest of water flow rates can be achieved and managed effectively on concrete floors, which are widely used in the construction of modern houses. With one of the shallowest traps available in the UK, the Linear Screed Drain is ideal for the upper floors of a building where the insulation and concrete screed is much shallower in depth than the ground floor foundations.

0844 327 6002 [www.ccl-wetrooms.co.uk](http://www.ccl-wetrooms.co.uk)

## Hydra products launched by Ellis



As part of this season's launch of new bathroom products from Ellis Furniture, the popular Hydra range has welcomed the addition of two new door finishes: Chocolate Grey and Cirrus, both of which offer a warm and welcoming finish to any bathroom. Featuring the latest melamine (MFC) doors with

affordable designer styling and trendy natural tones, the horizontal grain of Hydra has become widespread in contemporary bathrooms after years at the cutting edge of interior design.

01484 514 212 [www.ellisfurniture.co.uk](http://www.ellisfurniture.co.uk)

## Maxwood Washrooms assist in colour therapy



Combining HTM-compliance with ease of installation and ongoing maintenance, Maxwood's Maxwall HTM self-contained duct panelling system was the clear choice for new patient washrooms at Leicester's Bradgate Mental Health Unit and Bennion Centre. Maxwood manufactured

around 180 Maxwall HTM ducting units and complementary cubicles from its Marin range for the hospital's new acute ward and two existing wards. Maxwall HTM complies with Health Technical Memorandum (HTM68) for ducts and sanitary panel assemblies in health buildings. The self-contained system makes running of pipework and mounting of sanitaryware quick, easy and secure.

## Ellis Furniture launches Reflection Gloss Maize



Continuing this season's launch of new bathroom products, Ellis Furniture has launched Reflection Gloss Maize with the new centre wave worktop. Featuring a 22mm lacquered handleless door, Reflection is available across the entire fitted and modular cabinet offer.

Shown here with reduced depth modular units and a glass centre wave worktop, the effect is simple, stylish and contemporary. The new centre wave worktop offers subtle on trend curve appeal and is also available in solid composite and two sizes of 1,200mm wide and 1,400mm wide, offering great design flexibility.

01484 514212 [www.ellisfurniture.co.uk](http://www.ellisfurniture.co.uk)



## Changing Places in the healthcare industry

One in 284 people in the UK need a Changing Places toilet, yet of the UK's 2,300 hospitals, only eight have the 'bigger and better' accessible (disabled) facility. To help estates and facilities managers easily understand the need, the requirement and the criteria, Clos-o-Mat, a leading disabled toileting solutions provider in the UK, has published the white paper *Provision of Changing Places Accessible Toilets in the Healthcare/Hospitals Industry*. Available for download from the company's website, the paper covers the rationale behind a Changing Places toilet, quantifies the need to provide such a facility in healthcare establishments, and covers legislative and 'good practice' guidelines. Unlike a conventional accessible toilet, a Changing Places toilet is a minimum 12 sq m, and has additional equipment including a height adjustable changing bench, hoist and privacy screen. Since the Changing Places concept was developed, over 500 have been installed across the UK.

# NEW QUOOKER INTRODUCES THE NORDIC DESIGN SERIES

## Fusion and Twintaps



## Quooker launches new Nordic Series

### History

When engineer Henri Peteri was working on the development of instant soup for an international food company thirty-five years ago, he realised that soup would never be 'instant' without boiling water on tap. From that moment on he was captivated by this idea. He left the company he was working for and – working out of the cellar in his own home – started developing an appliance that would dispense boiling water instantly.

### The world's first

The Quooker is the world's first 100°C boiling-water tap and holds global patents. The Nordic series marks a significant development in the history of the company and is only available through kitchen retail showrooms and is not available via any online dealers.

### New Nordic Series

The new Nordic series, packed with new innovations. Each Quooker tap has full height adjustment and 360 degree rotation with both a push-and-

turn safety handle and a visual signal; a bright LED ring lights up when the tap is touched. Grooves on the handle provide a tactile alert and give extra grip.

### Kitchen showroom line only

The new Nordic series has been launched as a kitchen showroom line only. It's not available online demonstrating Quooker's commitment to its kitchen dealer network.

Contact us to find out more on the Nordic Design Series.

Call us on 0808 115 0160 or visit [www.quooker.co.uk](http://www.quooker.co.uk)



## Next generation of kitchen ventilation fans



Fan manufacturer **Vent-Axia** has launched its latest energy efficient ventilation solution, the Lo-Carbon Kitchen Box Fan. Compliant for ERP2015, the fan also meets the new Part L Building Regulation requirements for reduced Specific Fan Power while offering end-users a 12-month pay back when upgrading from AC motor fans. It incorporates a long-life EC motor coupled with a backward curved

impeller and an integral potentiometer that provides full manual speed control. These reduce the Kitchen Box Fan's energy and running costs by up to 44 per cent when compared to AC motor fans with transformer speed control. The fan can also operate in elevated duct temperatures of up to 120°C.

0844 856 0590 [www.vent-axia.com](http://www.vent-axia.com)

## Make a bee-line for the Hive Basin



The Hive Basin, from **Hudson Reed**, is a new freestanding basin design, which creates a contemporary feel for any bathroom, and a real focal point. The design is perfect for achieving an updated look without resorting to the harsh, square angles usually associated with contemporary design. The basin features a clean oval bowl shape with a tiered effect tapering in towards the base to give the illusion of more floor space.

Manufactured in gel coated resin to produce a clean, crisp finish, the Hive basin co-ordinates well with Hudson Reed tap ranges such as Cloud 9 and Hero to create a stylish yet practical look.

01282 418 000 [www.hudsonreed.co.uk](http://www.hudsonreed.co.uk)



## A new modern classic collection

**Mereway Kitchens** is celebrating the very essence of being British with an impressive launch of its new English Revival modern classic collection; a range which features unique iconic furniture pieces, distinctive colour palettes and the very finest in quality British craftsmanship. The award winning English Revival range presents an unrivalled collection of bespoke, hand made in-frame kitchens made from solid wood and hand painted. In-frame kitchen trends are soaring with consumers searching for something special with real individuality. Mereway's new Modern Classic look presents a fresh, exciting new style; a flat slab door with subtle horizontal grain, the removal of cross rails and delicate beading within the solid timber frame which presents an exciting modern twist to in-frame kitchen design. The introduction of painted interiors on cabinets, open end units and open shelving is another exciting concept presented, also available for the current successful in-frame shaker collection. 'Colour ties' presents a fresh approach to colour selection, by suggesting four popular palettes using harmonious colours and a suggested complimentary colour.

0800 028 4466 [www.merewaykitchens.co.uk](http://www.merewaykitchens.co.uk)



## Stunning new kitchen collection

**Moore's Furniture Group** has unveiled its latest kitchen collection with the launch of Definitive, a brand new range of kitchens designed to meet all expectations, effortlessly combining style, substance and flexibility. These key principles have been the driving force in conceptualising and developing the collection, which includes handleless designs, doors and cabinets in the latest colours, high specification cabinets and a style for everyone. Definitive has something for everyone, with 12 different door styles split into three collections; Horizon, Modern and Classic. Horizon is our new handleless range; clean, sleek, uncomplicated designs which complement the cabinet colours beautifully. These three ranges; Luna, Vista and Novi are paired with the new high specification H3 cabinet, which has been designed from scratch pulling on extensive research in the market.

01937 842394 [www.moore's.co.uk](http://www.moore's.co.uk)

## LED | LIGHT PANEL



- Custom sizes on short lead time
- Available in framed/frameless options
- Custom shapes and bends

[www.brightgreentechnology.com](http://www.brightgreentechnology.com)  
or call +44 (0) 1932 355221

bright green  
technology

100%design®  
Stand E12



# Bespoke Movement Joints

Manufactured for your project

VIEW OUR  
NEW WEBSITE  
[colouredmovementjoints.co.uk](http://colouredmovementjoints.co.uk)



CMJ Standard Movement Joint



CMJ Coloured Movement Joint

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



- Colours to match the full RAL range
- Designed and Manufactured to exceed BS5385
- Robust, Durable and can cope with heavy stresses
- Distributes stresses evenly between the foundation and floor covering preventing "tenting" and "popping"
- Prevents the conduction of noise from footfall and other bodies
- Epoxy infill to provide movement accommodation
- Resistant to puncture and has anti-bacterial properties
- Available in Aluminium, Stainless Steel and Brass

## Coloured Movement Joints Ltd

Telephone: 01924 360 110 | Email: [info@dunst.co.uk](mailto:info@dunst.co.uk) | Website: [www.colouredmovementjoints.co.uk](http://www.colouredmovementjoints.co.uk)

Unit 6a | Wakefield Business Centre | Denby Dale Road | Wakefield | West Yorkshire | WF2 7AZ



## Coloured Movement Joints Projects and Applications



Retailers



Car Showrooms

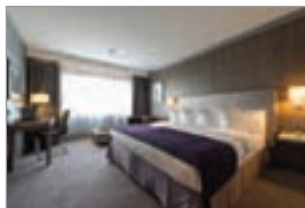


Domestic



Transport

## Deco-rative finish for iconic hotel



The £10 million refurbishment of the Radisson Blu Hotel Manchester Airport – the North's biggest hotel investment programme – is currently underway and Scolmore Group's wiring accessories have been specified for the newly renovated business class bedrooms. The iconic hotel,

which originally opened in 1998, will be radically transformed over three phases. During the first and largest phase, all 120 of the business class bedrooms and suites have been fitted out with products from Scolmore's Deco decorative metal wiring accessories range. Switches; socket power outlets; control switches; TV, telephone and data sockets.

01827 63454 [www.scolmore.com](http://www.scolmore.com)

## Wiring accessories to weather the storm

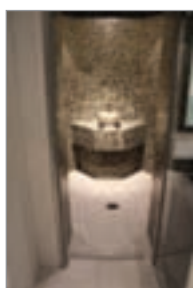


Scolmore Group is expanding its wiring accessories offer with the introduction of a range of durable, easy-to-install weatherproof boxes designed to offer a high level of protection against ingress of water jets and dust. Launched under the trade name Aquip66, the range comprises one and two gang double pole switched socket enclosures, plus one and two-gang, two-way switch plates which all come as completely sealed units and

are supplied in a choice of furnished and unfurnished options.

01827 63454 [www.scolmore.com](http://www.scolmore.com)

## Dallmer aids drainage at Newmarket Spa



The privately owned Bedford Lodge Hotel in Newmarket, a Victorian property once part of the estate of the sixth Duke of Bedford has recently launched a new Spa. Barnes Construction contacted Dallmer, a company with over 100 years experience in this sphere and sought advice as to which of its extensive range of products would be suitable. Dallmer recommended its floor channel Ceraline Pronto F 600mm with a built in depth of only 129.5mm, which would be suitable for each location in the Spa. The Pronto was extremely

simple to install, flanges securing the drain to the floor are grade quartz sand coated onto epoxy glue which gives optimal waterproof adhesion.

01787 248244 [www.dallmer.com](http://www.dallmer.com)

## Impey Showers re-engineers the shower seat



Impey's revolutionary new SlimFold shower seat and bench is stylish, durable, safe and functional. It bears weight of up to 40 stone and has a profile of just 111mm/55mm when folded.

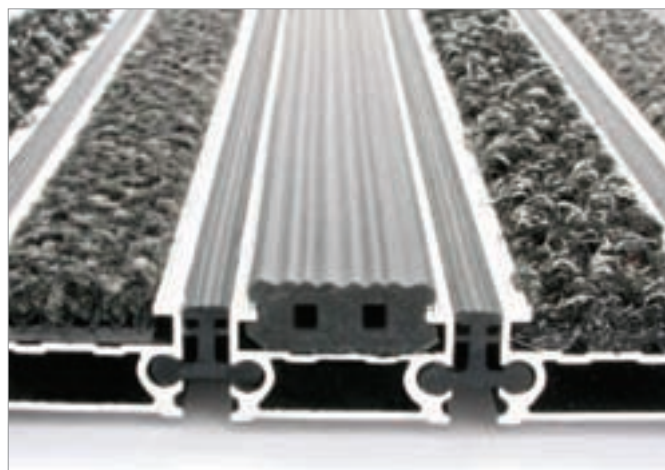
SlimFold comes in 10 colours with an RRP of £175 (plus VAT) and can be fitted from heights of 417mm which ensures safe transfer between standing and sitting or from a wheelchair. There is no maximum height restriction.

01460 256 090 [www.impeyshowers.com/slimfold](http://www.impeyshowers.com/slimfold)



## Termatech gives natural appeal

The TermaTech range of Scandinavian-made wood burning stoves from Specflue embraces simple genuine quality in a modern and minimalist design plus the pride of the Nordic Ecolabel. The focus is on long life, ease of use, environmentally friendly combustion and competitive prices. These are efficient and elegant wood burners in a stylish Nordic design. They simply represent a beautiful piece of furniture that gives warmth and style to the home interior. The temperature rapidly reaches optimum effect at 5.0kW with notable 80 per cent efficiency, which is four times that of an open fire. The range is thoroughly tested by the leading recognised institutes and will heat 30 to 140m<sup>2</sup>. The finish is available in black or grey and the stoves can be connected to rear or top flue outlets and a removable glass fronted door is fitted for safe access to the wood department. A cast iron frame is fitted in the door and the bottom of the burning chamber and the firebox is lined with high-insulating vermiculite.



## COBA moves Plan.a manufacture in-house

COBA Europe has recently moved the manufacture of its Plan.a aluminium entrance matting to its own facility in the UK, bringing a multitude of benefits to customers. The system, which is custom made to individual specifications, can now be produced to COBA's own high quality standards and delivered in shorter lead times. This means that Plan.a can be more competitively priced in the aluminium entrance matting market, with the added advantage of efficient UK based sales support. Plan.a is an adaptable, heavy duty aluminium entrance matting system. It is ideal for entrances with high volumes of footfall. There is a choice of surface material options in either an 'open' or 'closed' construction. One style, or a combination of insert styles are available, including Atrium Nylon carpet, Needle punch carpet, or ribbed PVC. COBA offers an on site templating service with FITA trained personnel to ensure precise specification during the ordering stage.

0116 240 1088 [www.coba-europe.com](http://www.coba-europe.com)

## Marmox aids conversion in Hackney



Set in Hackney Downs Studios, The Village Green is a brand new shopping and cultural development initially incorporating five local small businesses but with the possibility of further expansion. Two of the conversion problems were the need to build a new mezzanine floor structure above the shops and

to ensure that the interiors of the shopping areas were quiet and intimate. **Marmox** Heraklith wood wool panels were specified and are a natural product consisting of certified spruce wood, which are produced with respect for the highest ecological, social and ethical standards. Heraklith panels are multipurpose and can be used internally or externally on walls, floors and ceilings.

01634 835290 [www.marmox.co.uk](http://www.marmox.co.uk)

## Award winning kneepads save injury & money



An award winning, non-foam based, pocketed safety kneepad which maintains its maximum cushioning effect throughout consecutive or prolonged use, "can help prevent up to six months down time and subsequent loss of earnings through knee injury in the workplace". The claim comes from

Cliff Lockyer, CEO of CL-7 Limited,

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](http://www.redbackskneepads.co.uk)

## Gerflor helps Children in Need project



International vinyl and linoleum flooring specialist **Gerflor** was able to help an outstanding charity project in aid of BBC charity Children in Need. The company donated Tarasafe™ safety flooring in poppy red and sky blue colours to the Little Miracles' Project as part of the BBC One special programme

*DIY SOS: The Big Build with Children in Need*. The flooring was laid in the toilets as part of a life changing transformation to the centre for disabled children in Peterborough. Gerflor Marketing Manager Nav Dhillon said: "Little Miracles does an outstanding job and we were just happy to help in any way we could."

01926 622600 [www.gerflor.co.uk](http://www.gerflor.co.uk)

## Tarkett announces phthalate-free technology



**Tarkett**, a worldwide leader in innovative flooring and sports surface solutions, has announced its decision to use phthalate-free plasticisers in its vinyl flooring production in Europe in 2014. As part of Tarkett's commitment to greater sustainability and eco-innovation, these new phthalate-free products have been designed to

improve indoor environment and air quality. The phthalate-free plasticisers selected by Tarkett are approved for food contact containers and can be used for toys intended to be placed in the mouth by children. Tarkett has also set a high industry standard by eco-designing all its products to have low or extremely low VOC emissions, thus contributing to better indoor air quality.

01622 854040 [www.tarkett.co.uk](http://www.tarkett.co.uk)



## Forbo Eternal vinyl – a key ingredient

Wirral consultancy Crave ID specified Eternal general purpose vinyl from **Forbo** as a key ingredient in the interior design scheme for Salad Bowl, a new healthy-eating fast-food outlet in Liverpool. Used throughout, Eternal Wood in Warm Chestnut and Eternal Palette in bright green Apple have helped to deliver bright and appealing interiors reflecting the 'healthy food on the go' philosophy. The flooring had to withstand high daily footfall and provide an R10 slip resistance rating. It also had to be easy to keep clean and maintain. Both designs benefit from a PUR pearl lacquered finish providing a high level of scuff and chemical resistance. Matt Cole of Salad Bowl said: "We couldn't be happier with the interior design and the flooring in particular has been great, with excellent performance properties and a bright, fresh design. It's also easy to clean, which means we can spend less money on maintenance and more money on providing our customers with high quality food."



## Academy keeps the faith

A London academy has put its faith in **Tarkett** after the company expanded its range of vibrant sports flooring colours. Tarkett has extended its Omnisports collection by adding 13 new bright and engaging colours to put functional aesthetics back at the heart of sports centre design. One place already benefiting from the expanded colour range is St Michael's and All Angels Academy in Camberwell, London. The academy is a new building that includes a sports hall and gymnasium – fitted with 700 sq m of Omnisports Reference in Sky Blue. Omnisports Reference was selected due to its added 6.5mm transparent vinyl wear layer – ideal for a busy school environment where the floor will experience heavy footfall every day. The flooring contractor behind installation of the product was Avonline. Contracts manager, Ian Williams, said: "We had used Tarkett Flooring before and were very happy with the product. It has a quality finish and appearance that always pleases the customer and for us it's easy to install."

01622 854040 [www.tarkett.co.uk](http://www.tarkett.co.uk)

## Win a £10,000 Ted Todd fitted wood floor



Ted Todd has launched a design competition to celebrate the launch of its new range "create" – a first of its kind, easy-to-use bespoke design system for anyone wanting to create a fabulous hardwood flooring to suit their projects style. Like Ted Todd's Facebook page and enter your design at: [www.facebook.com/tedtoddwoodfloors](http://www.facebook.com/tedtoddwoodfloors) to win the design of your dreams. With over 30,000 possible

design combinations designing something to complement your interior has never been easier.

01925 284 363 [www.tedtodd.co.uk](http://www.tedtodd.co.uk)

## Crystal Doors - the interior designers friend



Crystal Doors' bespoke foil wrapped door, carcass and wall panelling / cladding capability offers the opportunity to create a continuous interior design flow throughout your property. Choose from a multitude of high quality foil finishes (to include wood grains) to create MDF foil wrapped cabinets for kitchen,

bathroom and bedroom furniture. Create your own door style and finish with matching or contrasting finishes to door and drawer fronts. Matching end panels to include exciting curves are also possible! The flexibility of Crystal Doors service allows you to produce a design that's in tune with the style of your property.

01706 351 010 [www.crystaldoors.com](http://www.crystaldoors.com)

## Sentrii Pro gate locks



Sentrii Pro gate locks, from **Signet Locks**, are a professional and stylish range of gate locks designed and built in the UK.

- Providing simple, convenient and effective solutions for locking gates
- Bolt on or weld in ranges with option of deadlock, latch deadlock, latch only or keylatch
- Used in commercial properties, schools, residential, sheltered housing, alley gating, communal gates
- Long throw with 30mm movement with one turn of a key
- Adjustable stainless steel bolts ensure excellent security and corrosion resistance
- Supplied with high security eurocylinder, keyed alike and thumbturn cylinders also available
- Detailed instructions and fitting details available
- Never compromise security for convenience, use Sentrii Pro

01243 552066 [www.signetlocks.co.uk](http://www.signetlocks.co.uk)



## Berry Brisafe System at East Marketgait

Berry Systems' innovative Brisafe wire rope safety barrier has been installed at the new, 500 space East Marketgait car park in Dundee. It serves the new leisure centre which is part of Dundee City Council's multi-million pound redevelopment of the city's waterfront area. The Berry Brisafe perimeter protection system is ideal for new build car parks. It features three lengths of wire rope anchored under tension to the car park structure. These ropes are then fitted with in-fill panels which can be colour coordinated to almost any specification. Following an impact, the damaged in-fill panel can be removed swiftly and replaced. The wire rope elements are fully reusable. With a zero footprint in the parking bay, Brisafe creates a very practical and visually attractive perimeter barrier that combines an independently tested safety performance with architectural flexibility to enhance the appearance of the whole structure. As well as nearly 700m of Brisafe, Berry Systems also installed 1,000m of traditional vehicle safety barriers featuring their flexible spring steel posts and Flexi-Posts. These provide protection at split levels, exposed perimeters and for vulnerable walls.

01902 491100 [www.berrysystems.co.uk](http://www.berrysystems.co.uk)

## Fibaform

Manufacturers of GRP buildings and products



Bespoke Ready Built GRP buildings designed to meet your exact requirements

- Full design through to installation service
- Normally delivered and installed same day
- Total flexibility of design



Tel: 01524 60182 Email: [info@fibaform.co.uk](mailto:info@fibaform.co.uk)  
[www.fibaform.co.uk](http://www.fibaform.co.uk)



# Tubosider creates giant planters for South Bank

As the UK's number one manufacturer of steel stormwater tanks, drainage pipes and culverts, Tubosider's corrugated steel pipes are put to a wide range of uses, but few like this...

In a striking extension to their more traditional roles in water management, RHS Gold medal winning designer Matthew Childs has installed a range of Tubosider pipes as an integral feature of his latest work – an urban Remix Garden on London's South Bank.

Opened on 11 September, Matthew's garden in the courtyard of the iconic OXO Tower Wharf, right on the Thames, is one of four unique installations for Cityscapes 2013.

Since August, a show garden from this year's RHS Chelsea Flower Show has rematerialised, remixed into four new gardens in the same way as a song might be remixed by different producers.

Materials and plants for his latest project come from the Cloudy Bay Discovery Garden, which won Silver-Gilt at the RHS Chelsea Flower Show in May. For his remix, Matthew decided to create and plant out large-scale circular beds raised high at different angles.

For the courtyard at OXO Tower Wharf, Matthew continued the water theme from his



Hampton Court Palace garden, researching the best culverts to create circular beds.

Tubosider easily cut and shaped its products to requirement, creating a structure of five pipes 2,600 to 1,000mm in diameter. Installing the whole garden took just two days, in time for opening.

"The culverts worked a treat and make magnificent giant planters!" said Matthew.

Conceived by landscape designer Darryl Moore, Cityscapes aims to bring new life to urban parks and garden design through temporary and permanent gardens.

"The feedback has been great," Moore says. "That courtyard is so visible, with commuters, residents

and visitors delighted to see plain paving transformed by such a bold and imaginative creation."

A fifth and final Remix Garden will appear at the RHS London Shades of Autumn Show on 22-23 October, before completing its lifecycle with materials ending up in local community garden spaces.

**01744 452900**  
**sales@tubosider.co.uk**  
**www.tubosider.co.uk**



## GHA shows the way

Glasgow Housing Association (GHA) has been able to increase its CO alarm replacement cycle by using Kidde Fyrnetics' TenYCO range – the very first battery carbon monoxide alarms with a full 10-year guarantee covering both alarm and sealed-in lithium battery. GHA is one of the largest social landlords in the UK, with more than 43,000 tenants and has been fitting CO alarms for a decade while undertaking heating installations. In 2008, this was extended to maintenance contracts as well. As GHA's Kenny Brown explains: "We have around 26,500 properties and every one is fitted with a minimum of one CO alarm which is checked annually as part of the maintenance programme. TenYCO self-contained, state of the art CO alarms are designed for quick and simple installation by anyone and for low cost of ownership, offering 'Best Value' over a 10-year life. The new 10LLCO and its digital display 10LLDCO equivalent anticipate future changes to the European CO alarm product standard with an extra End-of-Life/Fault LED and 'ramp up' horn.

01753 685096 [www.smoke-alarms.co.uk](http://www.smoke-alarms.co.uk)

## Trendsetting industrial style



With the trend for utilitarian interior design taking hold, Solus Ceramics has introduced the stylish Replicate range, a concrete inspired floor and wall tile that embodies a modern industrial aesthetic. Replicate is influenced by urban architectural trends and industrial landscapes, and features nine contemporary colours, including raw greys and rustic browns. The range reflects the patterns, colours and irregularities that appear in polished concrete and also display variations that look similar to flaking plaster. Some of the tiles have also been designed to evoke oxidized metal, presenting a chic rusted finish. Replicate is available in a number of large format sizes, for uninterrupted floors and walls.

0121 753 0777 [www.solusceramics.com](http://www.solusceramics.com)

## Denso Steelcoat protects Scottish aqueducts



Scottish Water plc has recently completed a £7 million project to upgrade aqueducts conveying water from Loch Katrine to Glasgow. The company says it was the biggest improvement to the aqueducts since they were constructed more than 150 years ago. The main contractors were

George Leslie Ltd, with Jacobs being the Consulting Engineers. Winn & Coales (Denso) Ltd's Steelcoat 400 system was chosen to give long-life protection on the 48in diameter pipes used at three structures which were virtually reconstructed along the aqueduct system. These carry two twin pipeline sections conveying 450 million litres of water per day to 1.3 million people.

02086707511 [www.denso.net](http://www.denso.net)

## GRPlite help bring Roman history to life



Specialist glass reinforced plastic (GRP) engineers GRPlite, part of the JR Boone engineering group, have worked with The Vindolanda Trust on Hadrian's Wall and Scottish architect Andrew Hamilton to recreate a 50m section of an ancient aqueduct. They used in-house CAD facilities to create the design and

mould from an actual Roman stone, and finished the surface to appear as the aqueduct might have done when new. The sections were supplied in 2m sections for simple installation.

01260 272 894 [www.jrboone.com](http://www.jrboone.com)

## Aquobex Resilient Property™ at BRE



Aquobex, a leading supplier of consultancy and products for property flood resilience, has announced that it will be building a new flood resilient property at BRE, Garston. The house, which has been designed by leading architectural firm Baca, will incorporate some of the latest

solutions for keeping flood water out of properties as well as many cutting edge solutions that can be utilised in interior fit-out to minimise the damage and disruption should flood water enter a property.

01923 518 582 [www.aquobex.com](http://www.aquobex.com)

## AVA™ LED products chosen by Virgin



In a bid to create more energy efficient railway stations, Virgin Trains has used AVA™ branded LED lighting products, manufactured by Novah Ltd, to light up parts of Birmingham International Railway Station. Lighting accounts for a significant amount of energy usage, and AVA™ LED technology

was specifically chosen as a cost effective route in achieving 90 per cent reductions in power consumption, when compared to outdated lighting technologies. AVA™ branded T8 tube lights, lamps and panel lamps were chosen for this project, as well as the AVA™ intelligent lighting solutions, which includes microwave dimming technology in both tubes and panels for improved on site safety. This will also contribute to further savings and extended product life.

## Upkeep of landscaped space made even easier



Created by Instarmac Group Plc, i-fix allows homeowners to restore their outdoor space themselves or with the help of a professional installer. The unique i-fix Speedy Paving Grout is perfect for grouting new or re-pointing existing paving and saves valuable time thanks to its fast setting time. Paving Sealer has been created specifically with block paving in mind but it can also be

used on slabs with sand joints. Patios can also require a patch up job in parts following a particularly harsh winter or heavy wear and tear so Speedy Concrete is included in the i-fix range to tackle cracked or damaged paths and steps.

01827 254 499 [www.i-fix.co.uk](http://www.i-fix.co.uk)

# FLOOD BARRIERS • FLOOD GATES • FLOOD DOORS

The most comprehensive range of flood defence systems in the world from UK based Flood Control International.

We design, manufacture, supply and install bespoke engineered flood defences:

### FLOOD BARRIERS -

permanent glass walls, 'stop-log' panels, flip-up and drop-down barriers.



**FLOOD GATES** - for flood protection whilst keeping access available for vehicle, pedestrian and disabled access.



**FLOOD DOORS** - designed to protect against fire, flood and unauthorised entry.

Our automatic flood barriers can operate to self-raise with the rising flood water, or be push button operated so that the flood barrier can be operated in advance of floods.



Call us now on (01822) 619730 to hear how we can provide dependable flood protection that integrates with building design and aesthetic.



tel: (01822) 619730 • email: [enquiries@floodcontrolint.com](mailto:enquiries@floodcontrolint.com) • web: [www.floodcontrolinternational.com](http://www.floodcontrolinternational.com)

## The perfect setting for Ecocal



As the days get shorter and the nights grow colder, Altecnic is encouraging plumbers to promote the benefits of thermostatic radiator valves (TRVs). As well as the well-known economic and efficiency savings, Altecnic is raising awareness of the safety benefits of installing its A rated Ecocal TRV. Designed and developed to meet the highest international accreditation standards, Altecnic's Ecocal is the ideal TRV for both domestic and public environments including schools, car homes and university accommodation. Its 'anti-tamper' function allows the head of the Ecocal to be set to a single non-adjustable position, providing a safe and constant output temperature which eliminates the risk of accidental scalding.

## New Q-Vent HR400 heat recovery



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 counterflow 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.

## Opportunity knocks for James Latham



With the government's Code for Sustainable Homes Scheme (CSH) target for all new houses to be zero carbon by 2016, James Latham is now offering a complete door kit solution which has been certified as passive house compliant by the renowned Passive House Institute in Darmstadt (Germany).

According to official figures, the UK's 21 million homes account for around 27 per cent of the overall carbon emissions released into the atmosphere and the need to address the carbon situation within the housing sector is of paramount importance – passive house compliant products are a recognised and accepted solution to the zero carbon requirement. A passive house achieves significantly notable levels of airtightness and insulation with minimal thermal bridges and delivers a high level of internal air quality provided by a mechanical ventilation system that recovers heat efficiently and doors have a big part to play in achieving this.

The door kit being offered by James Latham includes a door leaf which is 98mm thick and is available in three decorative facing options. The passive house door blank has a U-Value of 0,54 W/m<sup>2</sup>K; and the door – as supplied in kit form – has a U-Value of ≤ 0,80W/m<sup>2</sup>K (with and without glazing).

0116 257 3415 [www.lathamtimber.co.uk](http://www.lathamtimber.co.uk)




Go Shelters Ltd manufacture and install a wide range of **shelters, canopies, covered walkways and jet wash screens**



Contact us today on **01704 514613** or email **info@goshelters.co.uk**, or you can visit our website **[www.garrickoutdoor.org.uk](http://www.garrickoutdoor.org.uk)**



**Looking for some design inspiration...**

Our Natural Selection of Hard Landscaping Aggregates is the most comprehensive selection currently available in the UK.

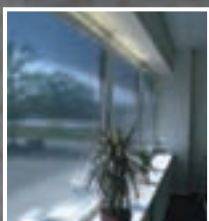
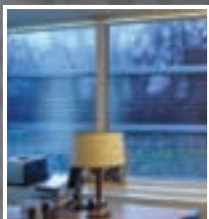
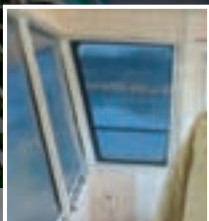
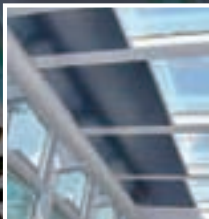
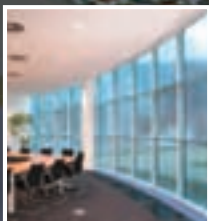


**Looking for more specialist products for decorative resin surfacing or polymer flooring. . .** We also supply the most extensive selection of dried aggregate granules and sands currently available in the UK.



**see us at**  
**FutureScape**  
**stand 2&3**

**Request a brochure or order complimentary samples**  
**T: 01629 636210 F: 01629 636247**



### DISCRETE

Variety of colour and material options available allows integration with any decor

### ADAPTABLE

Can be fitted to sloping or unusually shaped windows; upstroking option available for rooflights



# Reflex-Rol

BESPOKE ROLLER BLIND SYSTEMS

# ... more than just a sunblind

**Reflex-Rol is a proven bespoke solar shading system offering state-of-the art solar heat control**

### SOLAR HEAT REFLECTION

Laboratory tests show that Reflex-Rol blinds reflect up to 87% of incoming solar energy\*

### SOLAR GLARE CONTROL

Reflex-Rol blinds use semi transparent metallic polyester foils, giving excellent internal glare control

### THERMAL INSULATION

Reflex-Rol's thermal properties not only keep heat out but also help to keep it in, so saving on heating costs

**Call now for your free brochure**

**Tel: 01989 750704 • [www.reflex-rol.co.uk](http://www.reflex-rol.co.uk)**

The Leeuws Ltd., incorporating  
Reflex-Rol U.K. and Mowat U.K.  
are associate members of ES-SO3

**BBSA**  
BESPOKE BUILDING SYSTEMS ASSOCIATION

**Reflex-Rol (UK)**  
Insulating Solar & Glare Control Systems

Reflex-Rol (UK), Ryeford Hall, Ryeford, Ross-on-Wye, Herefordshire HR9 7PU  
Tel: 01989 750704 Fax: 01989 750768  
Email: [info@reflex-rol.co.uk](mailto:info@reflex-rol.co.uk) Online: [www.reflex-rol.co.uk](http://www.reflex-rol.co.uk)



Reflex-Rol is a division of  
De Leeuw Ltd

\* Accredited data reports from Sonnergy of Oxford - copies available on request

# Active Ventilation for Active Minds...



## Introducing the New Passivent Active Range The Energy Efficient Mechanical Compliment to Natural Ventilation.

The new Passivent Active Range is the cost effective solution for your Priority Schools Ventilation requirements.

Meeting the demand for naturally ventilated spaces to provide mixing of ventilation air with room air, avoiding cold draughts during winter time.

Features include:

- Mixing of incoming air, avoiding draughts
- Reduces heating energy bill through heat recovery
- Fan Boost facility in Summer to avoid overheating
- Secure night cooling in all weathers
- Incorporates SoundScoop® acoustic technology meeting the requirements of BB93
- Available for atrium and roof terminal applications

For more information visit [www.passivent.com](http://www.passivent.com)  
or call **01732 850770**



*Active Roof Terminal  
(Patent applied for)*



*Active Atrium  
Transfer Unit*